

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

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** KNT/BGM/LST-30/GOA

**Mine code :** 38KAR02038

- (i) Name of the Inspecting : **K04( ) Suresh Prasad**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHRI. SUNIL KUMAR SHARMA, M.E, RAMAN ARUNACHALAM, M.  
Official with  
Designation
- (iv) Date of Inspection : 22/11/2017
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **YADWAD & KUNNAL (M.L.NO.0**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : BELGAUM
- Village : YADWAD & KUNNAL
- Taluka : GOKAK & RAMDURG
- Post office : YADWAD
- Pin Code :
- FAX No. :
- E-mail : [www.dalmiacement.com](http://www.dalmiacement.com)
- Phone : 91 8334292271
- (f) Police Station : KULGOD
- (g) First opening date : 26/02/2017
- (h) Weekly day of rest : SUN
2. Address for : RS No. 394,  
correspondance : YADWAD VILLAGE, GOKAK TALUKA,  
BELGAUM DISTRICT, KARNATAKA - 591 136
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : DALMIA CEMENT (BHARAT) LIMITED  
 15, BARA KHAMBA ROAD  
 POST, HANSALAYA BUILDING,  
 NEW DELHI - 110 001.  
 DELHI DELHI  
 Phone:011-22330121  
 FAX :011-23313303

Owner : SHRI. T. VENKATESAN, NOMINATED OWNER,  
 M/S. DALMIA CEMENT (BHARAT)  
 LIMITED 26, FAGCON MANSION,  
 4TH FLOOR, ETHIRAJ SALAI,  
 EGMORE, CHENNAI CHENNAI CITY  
 TAMIL NADU  
 Phone:  
 FAX :

Agent : ANIL BAJAJ  
 YADWAD VILLAGE, GOKAK  
 TALUKA, BELAGAVI DISTRICT,  
 KARNATAKA-591 136 BELGAUM  
 KARNATAKA  
 Phone: 0833-4292271  
 FAX :

## Mining Engineer

Name : SUNIL KUMAR SHARMA, Full Time  
 Qualification : B.E. (MINING), 12 YEARS EXPERIENCE  
 Appointment/ : 12/01/2017  
 Termination date

## Geologist

Name : RAMAN ARUNACHALAM, Full Time  
 Qualification : M.Sc (APPLIED GEOLOGY), 15 YEARS EXPERIE  
 Appointment/ : 12/01/2017  
 Termination date

## Manager

Name : MUKESHKUMAR SINHA  
 Qualification :  
 Appointment/ : 12/01/2017  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 15/12/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year		Lessee has drilled 27 boreholes to a total depth of 1227 mtrs in the year 2017-18.	
1b	Exploration over lease area for geological axis 1 or 2		Lessee has drilled 27 boreholes in the year 2017-18 covering about 59 to 60 ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Exploration was carriedout by Lessee only. However machine was hired from M/s Khanna & Associates .	Rs 30 lakh were spent on exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposals were given in the approved document to explore entire mineralized area under G-1 level.	About 40.35Ha is explored under G-1 level of exploration and about 167 boreholes to a total depth of 6647 mtr is proposed in the balace plan period to explore entire mineralized area under G-1 level.	
1e	Balance reserve as on 01/04/20			- -
1f	General remarks of inspecting officers on geology, exploration etc		At present exploration is carriedout in block-I only and proposals were given in the remaining area to cover entire mineralized area under G-1 level in the present plan period.	

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1791890 to N-179300 & E-520800 to E-521080 (2017-18, Dec-17 to mar-18)	Working has been carriedout as per the proposal.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore only.	Topsoil was removed and benches were formed in ore only. waste is present in the form of intercalated clay only.	
2c	Stripping ratio or ore to OB ratio	1:0.09	1:0.28	<p>more topsoil generated and has been stacked for use.</p> <p>Due to lack of exploration OB was not proposed during April 2017 to Nov-2017, but OB was removed in this period so actual OB removed is more than the proposal.</p>
2d	Quantity of topsoil generation in m3	72065	147671	
2e	Quantity of overburden generation in m3	28665 (Dec 17 to Mar18)	230787 (Apr-17 to Feb-18)	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		<p>In the initial approved mining plan no proposal was given for handling OB due to lack of exploration and after detailed exploration and during actual mining waste was encountered as intercalated clay and same handled between Apr 17 to Nov-17.</p>	

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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	1804000 tons(2017-18)	1347856 tons (Upto Feb 2018)	
3c	Recovery of sailable/usable mineral from ROM production		100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Not applicable	Nil	ROM is directly being fed to plant without segregation.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Yes, Drilling and blasting proposed	Drilling and blasting carried out as proposed.	
3k	Provision of mining machineries in mineral benches	Excavator with bucket and rock breakers with dumpers of 60 ton capacity were proposed.	Lessee is using machineries as per the proposal. 15m bench width is maintained for machinery movement.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	11 m bench height proposed in mineral ( limestone)	Benches were proposed in ore only and height of the bench is maintained within 11 mtr only.	

3m	Total area covered under excavation/pits	8.97 Hectare	7.77 Hectare (upto Feb 2018)	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.09	1:0.28	
3o	Total area put in use under different heads at the end of year	27.90Ha	Area under mining-7.77ha, Area for storage of topsoil-1.50Ha, waste dump-1.4Ha, Roads - 2.00ha and area under green belt-11.7Ha.	
3p	Production of ROM mineral during the last five year period as applicable	1804000 tons	2016-17 111206 tons 2017-18 1347856 tons (Upto Feb 18)	Lease was executed on 11.01.2017 and working has been commenced from Feb 2017 only.
3q	General remarks of inspecting officers on method of mining etc.		This is newly opened mine and overall mining operations are carried out as per proposals of mining plan.	

## 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 was proposed.	Dumping of OB and topsoil is made separately as per the proposal.	
4b	Location of topsoil, OB and mineral reject dumps	Top soil Dump :In the Eastern side of lease in Block 1 OB/ Reject Dump : North of Rainwater Harvesting pit in Block 1	Dumping of waste and topsoil is made as per the proposal.	
4c	Number of dumps within lease area and outside of lease area	Two	Two within the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		Duming is made outside the UPL and proved as non-mineralized area by drilling.	
4e	Number of active and alive dumps.	Two	Two	

4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Two	Two	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall was proposed around waste dump and topsoil dump	Retaining wall was not constructed. However drain is constructed.	Violation is pointed out for the same.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall 1- 565m x 1-2m x 1m Retaining wall 2- 360m x 1-2m x 1m	Retaining wall was not constructed.	Violation is pointed out for the same.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		Topsoil and waste was dumped separately and dumps are away from the working pit. Retaining walls are not constructed as per the proposal and violation is pointed out for the same.	

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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.		Mine was recently started and mineral is not extracted upto the proved depth.	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Nil	

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5e General remarks of inspecting officers on backfilling and reclamation etc. The mine is recently opened and working has been not reached upto the proved depth and no backfilling and reclamation was proposed in the present plan period.

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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).	Before 1st july of every year.	Lessee is submitting annual report on PMCP within time.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.03Ha	12.71Ha	
6d	No. of saplings planted during the year	3000	3451	
6e	Cumulative no .of plants		3451	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	NA		The lessee through own resources incurring cost for maintenance.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	



6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)		Lessee is regularly monitoring air, water and noise in the core and buffer zone and all the parameters are found within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mine is recently opened and lessee is regularly monitoring the air, water and sound in core zone and buffer zone and results are within permissible limit. Lessee has planted around 3451 saplings in the year 2017-18 within the lease area.

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Mineral Conservation:

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Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	1804000 tons	1347856 tons (Upto Feb 2018)	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	Entire ROM is being fed to plant.
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines .	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No sorting of ROM is being done and entire ROM is being fed to plant without any processing.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	72065 m3 of top soil removal. Utilisation not proposed in Block period.	147671 m3 of top soil handled and stored separately.	
8b	Concurrent use or storage of topsoil		Stored separately for future use.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB dump was proposed separately.	OB was dumped separately.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		About 3451 saplings were planted in the year 2017-18.
8g	Survival rate		80-85%
8h	Water sprinkling on roads to control airborne dust		One water tanker with 10 KL Capacity is deployed for water sprinkling on road to control airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		This is a newly opened mine and lessee is in the process of initiating various measures for improving aesthetic beauty.

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Lessee has regularly submitted monthly and annual returns.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : Sunil Kumar Sharma Geologist : Raman Arunachalam Mines Manager : Mukesh Kumar Sinha	Verified and details of Mining engineer, Geologist and Manager are correct.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-2.00Ha, Infrastructure -0.5Ha ( as per annual returns 2016-17)	During inspection it was observed that area under mining was around 7.77 ha and area under infrastructre was around 2.5ha at the end of Feb 2018.
9d	Scrutiny of Annual return on afforestation	230 plants were shown outside the lease area during 2016-17.	During 2017-18 3451 saplings were planted within the lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	About 73492.88 tons	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production and Ex-mine price are shown as Rs-191.74 in the annual returns submitted for the year 2016-17.	
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is shown as Rs-1611781348 in the annual returns submitted for the year 2016-17.	
9k	Scrutiny of Annual return on mining machineries	Excavators-03 nos, dumper-07, Dozer-01, Wheel loader-01 was shown in the annual return submitted for the year 2016-17	

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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

Date :

(Suresh Prasad)

Indian Bureau of Mines