

**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 : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHRI. MUKESH KUMAR SINHA, MM, CHAKRABORTY, GEOLOGIS
Official with
Designation
- (iv) Date of Inspection : 06-MAR-20
- (v) Prev.inspection date : 06-AUG-19

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 : **sinha.mk@dalmiacement.com**
- Phone : **91 8334292271**
- (f) **Police Station** : **KULGOD**
- (g) **First opening date** : **26-FEB-17**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **RS No. 394,**
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-JAN-17
 Termination date

Geologist
 Name : RAMAN ARUNACHALAM, Full Time
 Qualification : M.Sc (APPLIED GEOLOGY), 15 YEARS EXPERIENCE
 Appointment/ : 12-JAN-17 31-JAN-19
 Termination date

Geologist
 Name : MRINMOY CHAKRABORTY, Full Time
 Qualification : M.Sc (APPLIED GEOLOGY) 10YERS EXPERIENCE
 Appointment/ : 01-FEB-19
 Termination date

Manager
 Name : MUKESHKUMAR SINHA
 Qualification : B.E.(Mining Engg), F.C.C.
 Appointment/ : 12-JAN-17
 Termination date

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	57 Holes - 2060	FY18-19:22 Hole - 879.20 m FY19-20:25 Hole- 1194.30m FY19-20:10 Hole - 567.50m Total 57 holes	Drilling work proposal for FY 2018-19 is completed, Currently FY 19-20, however, some holes are differed from the proposed locations., Violation issued.
1b	Exploration over lease area for geological axis 1 or 2	490.1Ha	308 Ha(77 holes are drilled in 200 X 200 grid pattern till date).Observed that, drilling was under progress.	Drilling were not sufficiently progressed w r t proposal, in the current year so far. Hence, violation issued.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Rs 49.44 Lakhs (2060@Rs2400 per meter)	As per the report submitted by lessee.
1d	Balance area to be explored to bring Geological axis in 1 or 2	490.01 Ha	Till date 308 Ha explored and exploration under progress	
1e	Balance reserve as on 01/04/20	41.93 Million tonnes	42.23 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc		Exploration of 57 core bore holes with a meterage of 2060 m in the year 2018-19 and 55 core BHs in the year 2019-20 were proposed. However, during the inspection, it has observed/reported that 57 numbers of such bore holes for the year 2018-19 are completed so far but found differed in locations with respect to the proposals in some cases. Further, it is observed/reported that only 05 bore holes are carried out so far for current year(2019-20).	Violation issued.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Block - 1(with 2 pits)	Block - 1 developed with single pit with greater area.	Deviation observed and issued violation.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil of 0.5 - 2.0m shall be handled and stored separately	Topsoil in working area is being handled and stored separately	
2c	Stripping ratio or ore to OB ratio	1 : 0.18	1 : 0.20	
2d	Quantity of topsoil generation in m3	FY 2018-19 :156705 FY 2019-20 :106025	FY 2018-19 :83710.00 FY 2019-20*:90888.00	Updated till Feb 2020
2e	Quantity of overburden generation in m3	FY 2018-19 :106656 FY 2019-20 :106671	FY 2018-19 :156672 FY 2019-20*: 314891	Updated till Feb 2020
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Deviation observed in mine developement with respect to proposal.	Issued violation.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	no's	2 2 no's	2nd pit were not developed so far as per the proposal. violation issued.
3b	Quantity of ROM mineral production proposed	FY 2018-19: 2399760 t FY 2019-20 : 2400098 t	FY 2018-19: 2183344.71 t FY 2019-20*: 1838552.52 t(till Feb2020)	Captive mines, Production is dependent on market demand (*till Feb 2020)
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NIL	NIL	Sub-grade/ mineral rejects are utilized by blending.

3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not Applicable	THV 35% CaO
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Applicable	Not Applicable	ROM directly feeded to crusher.
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, DTH, dia - 152mm	Being carried out DTH, dia - 152mm	
3k	Provision of mining machineries in mineral benches	Yes	HEMM deployed Back Hoe - 2 Nos (6 m3 & 3 m3) Front End Loaders - 2 Nos(6.5m3) Dumper - 7 Nos (60t) Drill - 1 no (152 mm dia) Dozer - 1 no (9.7m3) Wheel Loader - 1 no (2.7 m3)	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	11m bench height proposed in mineral (limestone)	Bench height maintained less than 11m	
3m	Total area covered under excavation/pits		29.98 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.15	1 : 0.38	Advanced development carried out.

3o	Total area put in use under different heads at the end of year		60.60 Ha	
3p	Production of ROM mineral during the last five year period as applicable	FY2016-17 :1250000 t FY2017-18: 1694541t FY2018-19: 2399760 t FY2019-20*:2400098 t	FY 2016-17 : 37713.12 t FY 2017-18 : 1587870.20 t FY 2018-19 : 2183344.71 t FY 2019-20* : 1838552.52 t(till Feb 2020)	Date of Commencement of Mines: 26.02.2017
3q	General remarks of inspecting officers on method of mining etc.		It has proposed to carry out mining operations by developing two numbers of pits.However, during the inspection, it has observed that the mining operation is being carried out by developing the single pit only.	Violation issued

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Two separate dumps proposed - 2 no's Top Soil - 1 No Waste - 1 No	Two separate dumps proposed - 2 no's Top Soil - 1 No Waste - 1 No	Separate Topsoil and waste dump are maintained
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 rain water harvesting pit in Block -1	Top soil dump : In the eastern side of lease in Block - 1 OB/ Reject dump: North of rain water harvesting pit in Block -1	
4c	Number of dumps within lease area and outside of lease area	Lease area = 2 (Top Soil - 1 No Waste - 1 No) Outside Lease area = Nil	Lease area = 2 (Top Soil - 1 No Waste - 1 No storage & OB) Outside Lease area = Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are proposed in non mineralize area out side UPL	Dumping is in proved in Non-mineralised area outside UPL	
4e	Number of active and alive dumps.	2	2	One top soil and One OB active dumps
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	yes	Garland Drain and Retaining wall are made
4i	Length of Retaining wall or garland drain all along dumps	925 m * 1-2m * 1m	1421m * 1-2m * 1m	Garland Drain and Retaining wall are made
4j	Number of settling ponds	-	2 nos.	maintained existing.
4k	Specific comments of inspecting officer on waste dump management		Dump management are being done systematically.	

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.	No proposal	NIL	Date of Commencement of Mines: 26.02.2017. Therefore, area not matured for the backfilling.
5b	Area under backfilling of mined out area	No proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	

5e General remarks of inspecting officers on backfilling and reclamation etc. Date of Commencement of Mines: 26.02.2017 . Thus, area not matured for backfilling &R&R.

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).	Yes	Yes	submitted on dated 30.06.2019
6b	Area available for rehabilitation (ha) .	No proposal	NIL	Date of Commencement of Mines: 26.02.2017
6c	afforestation done (ha).	Provided in Mining Plan & 1335 no. Plantation proposed	Baseline information provided in mining plan & 1884 no. plantation done and additional 5045 no. of plantation done out side the lease	For green belt developement and others
6d	No. of saplings planted during the year	1335 no. Plantation proposed	Baseline information provided in mining plan & 1884 no. plantation done and additional 5045 no. of plantation done out side the lease	
6e	Cumulative no .of plants		8356 nos. in the area 15.54 ha within the lease and 6368 nos in outside the lease.	As per the report submitted by lessee.
6f	Any other method of rehabilitation	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	4 Locations at Core zone and 4 Locations at Buffer zone	Monitoring carried out at core and buffer zones. Monthly report are being submitted to PCB	Agency:-M/s Cosmo Conscious Research Laboratory is conducting the monitoring.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Area is not matured for backfilling as the date of Commencement of Mines was 26.02.2017.	Thus, green belt development work is only under progress towards the R&R.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch to crusher	ROM dispatch to crusher	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	ROM dispatch to crusher	ROM dispatch to crusher for blending and size reducing.	
7c	Different grade of mineral sorted out at mines.	No proposal	NIL	Blending done at crusher which is outside the ML. As per the report, 5.52 lakhs tons of low grade limestone is utilized through blending.
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Blending done at crusher which is outside the ML. As per the report, 5.52 lakhs tons of low grade limestone is utilized through blending.	

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	106025 m3 of top soil removal. Utilization not proposed in Block period.	90888 m3 of top soil handled and stored separately	Till Feb 2020
8b	Concurrent use or storage of topsoil	NIL	NIL	Stacked seperately for future use.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	OB Dump maintained separately

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Provided in Mining Plan & 1335 no. Plantation proposed	Baseline information provided in mining plan & 1884 no. plantation done and additional 5045 no. of plantation done out side the lease	
8g	Survival rate	80%	Above 80% of survival rate maintained	
8h	Water sprinkling on roads to control airborne dust	Yes	One dedicated water tanker (KA 49 3692 & KA 49 5432 with 10 KL Capacity) deployed for water sprinkling on road to control airborne dust.Haulage road sprinkling system is with Electronic Control Module	Automatic sensor based sprinklers installed all along the haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Maintained very good aesthetic beauty in and around the mines area by developing green belt with plantations of diffirent species including fruit bearing plants. Also, developed an area for recreational purposes in adjascent to the Mine.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR Submitted up to = Jan 2020 AR Submitted up to = year 2018-19	The scrutiny of Annual Return 2018-19 was already carried out during the previous inspection on 06.08.2019. Therefore, scrutiny of Monthly returns were carried out.	Monthly returns of December 2019 & January 2020 are found in order.
9f	Scrutiny of Annual return on ROM stock and/or graded ore		ROM stock was observed as NIL.	Found in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Captive consumption of mines and Ex.Mine price : Rs. 212.64 /Ton as per Annual return 2018-19.	

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)	23-MAR-20			

Date :

(SURESH PRASAD)

Indian Bureau of Mines