

**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 : P01) PREM PRAKASH
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI. M.K.SINHA, MINES AGENT
Official with
Designation
- (iv) Date of Inspection : 10-MAR-22
- (v) Prev.inspection date : 06-MAR-20

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 EXPERIE
 Appointment/ : 12-JAN-17 31-JAN-19
 Termination date

Geologist
 Name : MRINMOY CHAKRABORTY,Full Time
 Qualification : M.Sc (APPLIED GEOLOGY) 10YERS EXPERIENC
 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
 MP review under 17(1) MCR 2016 10-NOV-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	F.Y 19-20: 55 boreholes, 2295m F.Y 20-21: 55 boreholes, 2295m	F.Y 19-20: 43 boreholes, 2192.30m F.Y 20-21: 12 boreholes, 707.50m	Backlog proposals are rectified and carried forward in the review of mining plan(approved on 10.11.2020) for next plan period 2020-21 to 2025-26
1b	Exploration over lease area for geological axis 1 or 2	Exploration for the year 2021-22 proposed to the extent of 100 Boreholes (1615 m)	only 11 Boreholes (900m) reported carried out so far in year 2021-22 till the date of inspection.	Violation issued in this regard.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	M/s Synergy Geo-tech Nagpur; 17.74 Lakhs reported in FY 20-21	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	About 423 Ha. (Balance area to be explored in future)	
1e	Balance reserve as on 01/04/20	117.713 Million Tonnes (As on 01.09.2020)	116.39 Million Tonnes (As on 01/04/2021) (UNFC 111 + 121 +122) As Per Annual Return submitted for 2020-21	Reserves Updated as on 1.09.2020 (117.713 million Tons) Under 211 category(3.032 million ton) & 333 category (25.650 million ton) in Review of Mining Plan (approved on 10.11.2020)
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Exploration work observed lagging; therefore, Violation issued in this regard.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Block - 1 Pit 1 : X : 520586 - 521205 Y : 171700 - 1792300 Pit 2 : X : 520372 - 521222 Y : 1790990 - 1791650	Block - 1 Pit 1 : X : 520641 - 5201117 Y : 171680 - 1792470 Pit 2 : X : 520649 - 520893 Y : 1791260 - 1791430	Less Production carried out during 2020-21, reportedly due to Pandemic COVID - 19, However, development/excavation proposals are ratified and carried forward in Review of Mining Plan (approved on 10.11.2020) for Next Plan Period 2021-22 to 2025-26
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Block - 1 Pit 1 : X : 520586 - 521205 Y : 171700 - 1792300 Pit 2 : X : 520372 - 521222 Y : 1790990 - 1791650	Block - 1 Pit 1 : X : 520641 - 5201117 Y : 171680 - 1792470 Pit 2 : X : 520649 - 520893 Y : 1791260 - 1791430	Less Production carried out during 2020-21, reportedly due to Pandemic COVID - 19, However, development/excavation proposals are ratified and carried forward in Review of Mining Plan (approved on 10.11.2020) for Next Plan Period 2021-22 to 2025-26
2c	Stripping ratio or ore to OB ratio	1 tonnes (Ore) : 0.15 tonnes (Waste) in 2020-21	1 tonnes (Ore) : 0.04 tonnes (Waste)	development/excavation proposals are ratified and carried forward in Review of Mining Plan (approved on 10.11.2020)
2d	Quantity of topsoil generation in m3	200630 m3	6013 m3	9020 tonnes (C.F = 1.5 t/m3)
2e	Quantity of overburden generation in m3	191111 m3	34283 m3	61710 tonnes (C.F = 1.8 t/m3), as reported, due to Less production development was also done less

2f	General remarks - of inspecting - officers on development of pit w.r.t. type of deposit etc	-	-	Development works observed lagging behind than proposed as less development/waste removal reported carried out so far in the year 2021- 22, as against the approved quantity of Waste disposal/removal of 203709 m3 for the year 2021-22, only 22319 m3 reported carried out up to Feb.'2022; moreover, Ore : OB/waste ratio reported 1:0.03 only so far, against the proposal of 1:0.14 in the year 2021- 22 ; therefore Violation issued in this regard.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 no's	2 no's	As reported, due to less Production during pandemic 2nd Pit progress was limited. Moreover excavation proposals are ratified in Review of Mining Plan (approved on 10.11.2020) and in Review of Mining Plan updated proposal is for single pit only.
3b	Quantity of ROM mineral production proposed			
3c	Recovery of sailable/usable mineral from ROM production			

3d	Quantity of mineral reject generation			
3e	Grade of mineral rejects generation and threshold value declared.			
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation proposed	No beneficiation is carried out	
3j	Provision of drilling and blasting in mineral benches	Yes, Drilling and blasting is proposed	Yes, Drilling and blasting is carried out 152mm (dia DTH)	
3m	Total area covered under excavation/pits	46.42 ha	32.30 ha. Upto 01.04.2021	As Per Annual Return submitted for 2020-21
3n	Ore to OB ratio for the pit/mine during the year.	1 tonnes (Ore) : 0.15 tonnes (Waste)	1 tonnes (Ore) : 0.04 tonnes (Waste)	development/excavation proposals are ratified and carried forward in Review of Mining Plan (approved on 10.11.2020)
3o	Total area put in use under different heads at the end of year	Total : 75.29 Ha	Total : 64.24 ha	area put in use is given As Per Annual Return submitted for 2020-21
3p	Production of ROM mineral during the last five year period as applicable	FY2016-17: 1250000 t FY2017-18: 1802817 t FY2018-19: 2399760 t FY2019-20: 2400098 t FY2020-21: 4299998 t	FY 2016-17: 37713.12 t FY 2017-18: 1587870.20 t FY 2018-19: 2183344.71 t FY 2019-20: 2035588.69 t FY 2019-21: 1855207.26 t	Production of ROM mineral is mentioned as given in Review of Mining Plan (approved on 10.11.2020) and Annual Return submitted for 2020-21

3q	General remarks of inspecting officers on method of mining etc.	Mechanized Open Cast mining being carried out with DTH drilling & blasting.	Some Para of ITEM 3 is not being entered in TMIS due to technical error. No Mineral Reject & Subgrade generation was proposed & achieved in 2021-22.
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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 developed - 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: E/W: 521302 - 521528 N/S :1791230 - 1791530 Waste Dump: E/W: 521145 - 521400 N/S :1791900 - 1792300	Top Soil: E/W: 521243 - 521457 N/S :1791439 - 1791616 Waste Dump: E/W: 521197 - 521424 N/S :1791200- 1792390	Top soil dump: In the eastern side of lease in Block - 1 OB/ Reject dump: North of rain water harvesting pit in Block -1 (Extents provided in UTM , WGS 84)
4c	Number of dumps within lease area and outside of lease area	Lease area = 2 Nos Non Lease area = NIL	Lease area = 2 Nos Non 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 carried out 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.	0	0	-
4g	Number of dumps established.	0	0	-

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	Garland Drain : 925 m x 1m X 1m Retaining Wall : 925 m x 1m X 1m	Garland Drain : 1396 m x 1m X 1m Retaining Wall : 1325 m x 1m X 1m	Garland Drain and Retaining Wall are made
4j	Number of settling ponds	-	2 Nos	-
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dumping has been carried out at earmarked place in systematic way.

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.	NIL	NIL	No Reclamation, Rehabilitation, & back filling are proposed during the plan period
5b	Area under backfilling of mined out area	NIL	NIL	No Reclamation, Rehabilitation, & back filling are proposed during the plan period.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	No Reclamation, Rehabilitation, & back filling are proposed during the plan period.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	-

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No Reclamation, Rehabilitation & back filling are proposed during the plan period as Mineral is not getting exhausted from any part of the lease area.
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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).	Yes	Yes	-
6b	Area available for rehabilitation (ha) .	No proposed for worked / Mined out benches	NA	-
6c	afforestation done (ha).	NIL	NIL	-
6d	No. of saplings planted during the year	NIL	NIL	-
6e	Cumulative no .of plants	NA	NA	-
6f	Any other method of rehabilitation	NA	NA	-
6g	Cost incurred on watch and care during the year	NA	NA	-
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	2225 Nos	2500 Nos'	During year 2020-21
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	-	Around 15.54 ha	During year 2020-21
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation	During year 2020-21
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring in Core & Buffer zone	Monitoring being carried out at core and buffer zones; environmental parameters were within the permissible limit.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP compliance & progressive closure operations being carried out in systematic way.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	Not Applicable	-
7c	Different grade of mineral sorted out at mines.	Not Applicable	Not Applicable	-
7d	Any beneficiation process at mines	None	None	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	ROM mineral being dispatched and as reported Conveyor Belt Analyzer being used at crushing plant for blending

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	yes	-
8b	Concurrent use or storage of topsoil	Concurrent use & storage of topsoil	Concurrent use & storage of topsoil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	01	01	OB Dump maintained separately
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	plantation Within ML Year No Area (ha) 2017-18 3451 12.72 2018-19 3021 2.07 2019-20 1884 0.75 2020-21 2500 - Total 10856 15.54	As reported during inspection
8g	Survival rate	Not specified	95%	-
8h	Water sprinkling on roads to control airborne dust	Proposed	to control airborne dust One water tanker with 10 KL Capacity) deployed for water sprinkling on road & Haulage road sprinkling system is installed with Electronic Control Module	Automatic sprinklers installed all along the haul road
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines area observed to be very good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = Feb 2022 AR Submitted up to = Mar 2021	-	Being submiteed regularly
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: S K sharma Geologist : Mrinmoy Chakraborty Mines Manager : MK Sinha	Mining Engineer: Himanshu Shekhar Geologist : Mrinmoy Chakraborty Manager : Himanshu Shekhar	At present employed

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total Area under pit, roads, buildings, Plantation & dumps : 64.24 ha	Total Area under pit, roads, buildings, Plantation & dumps : 64.24 ha	As per Annual Return submitted for 2020-21
9d	Scrutiny of Annual return on afforestation	Plantation - Within ML 2500 nos Survival Rate - 95%	Plantation - Within ML 2500 nos Survival Rate - 95%	As per Annual Return submitted for 2020-21
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	NIL	NIL	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mine price: Rs. 225.28 /Ton	Ex-Mine price: Rs. 225.28 /Ton	CAPTIVE Mine of Cement plant
9h	Scrutiny of Annual return on fixed assets	Rs 2,48,64,52,119/-	Rs 2,48,64,52,119/-	As per Annual Return submitted for 2020-21
9k	Scrutiny of Annual return on mining machineries	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) Water Tanker - 10 KL (2 nos) Explosive Van - 10 Tonnes	HEMMs are Deployed as given	-

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)	28-MAR-22			

Date :

(PREM PRAKASH)

Indian Bureau of Mines