

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

Review and updation of Mining Plan 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 : S/SHRI. M.K.SINHA, AGENT/MM AND BVR ACHAR, TQP
Official with
Designation
- (iv) Date of Inspection : 12-OCT-20
- (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 : **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** : **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-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 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	55 Holes - 2295m proposed in year 2019-20	FY19-20: 43 Hole - 2192.30m carried out	exploration is under progress
1b	Exploration over lease area for geological axis 1 or 2	-	92 holes are reported drilled so far in 200 X 200 grid pattern in Total area : 353 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	FY 19-20: Rs 56.41 Lakhs	As reported by Mines manager
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	444.85 Ha	353.16 Ha explored so far
1e	Balance reserve as on 01/04/20	-	Reserve Under 111 &122 cat. : 117.162 million ton as on 01.09.2020	Updated Reserve is given as per recently approved Review and updation of Mining Plan (RMP) dtd. 10.11.2020.
1f	General remarks of inspecting officers on geology, exploration etc			Further exploration proposal has been reviewed and updated in recently approved Review and updation of Mining Plan (RMP), dtd. 10.11.2020.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block - 1 :- Pit 1 & Pit 2	Block - 1 :- Pit 1 & Pit 2	Excavation/development proposal has been reviewed and updated in recently approved Review and updation of Mining Plan (RMP), dtd. 10.11.2020.

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 : 0.08	1 : 0.27	Te:Te
2d	Quantity of topsoil generation in m3	FY 2019-20: 106025	FY 2019-20 : 96947	
2e	Quantity of overburden generation in m3	FY 2019-20 :106671 (192008 te)	FY 2019-20: 314891 (566803 Te)	As reported, Waste quantity is more than anticipated during the FY 19-20
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			OB removal & Stripping ratio is in higher side, which may be considered positive in the interest of mineral/mine development. Further, Excavation/development proposal has been reviewed and updated in recently approved Review and updation of Mining Plan (RMP), dtd. 10.11.2020.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 no's	2 no's	Development of 2nd pit is under progress
3b	Quantity of ROM mineral production proposed	FY 2019-20 : 2400098 te	FY 2019-20: 2035588.69 te	
3c	Recovery of sailable/usable mineral from ROM production	FY 2019-20 : 2400098 te	FY 2019-20: 2035588.69 te	
3d	Quantity of mineral reject generation	Nil	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Sub-grade mineral is utilized by blending
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NA	
3j	Provision of drilling and blasting in mineral benches	Yes, Drilling and blasting proposed	Being carried out by DTH, dia - 152mm	
3k	Provision of mining machineries in mineral benches	Yes	HEMM deployed	
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	-	About 25 Ha by end of FY2019-20	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.08	1 : 0.27	Te:Te
3o	Total area put in use under different heads at the end of year	-	about 52 Ha by end of FY 2019-20	
3p	Production of ROM mineral during the last five year period as applicable	FY2017-18: 1694541t FY2018-19: 2399760 t FY2019-20:2400098 t	FY 2017-18 : 1587870.20 t FY 2018-19 : 2183344.71 t FY 2019-20 : 2035588.69 t	Date of Commencement of Mines: 26.02.2017. Production figure of ROM mineral given as reported in MP & Annual Returns.

3q General remarks of inspecting officers on method of mining etc.

Mechanized open cast mining method being followed with Excavator & dumper combination.

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 dump : In the eastern side of lease in Block - 1 OB/ waste dump: North of rain water harvesting pit in Block -1	Top soil dump : In the eastern side of lease in Block - 1 OB/ waste 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) Outside Lease area = Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are proposed at non mineralize area out side UPL	Dumping is at Non-mineralised area outside UPL	
4e	Number of active and alive dumps.	2 nos.	2 nos.	
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	925 m * 1-2m * about 1245m * 1-2m * 1m 1m		
4j	Number of settling ponds	-	02 nos.	
4k	Specific comments of inspecting officer on waste dump management			Separate Topsoil and waste dump are maintained. Waste dump management being carried out systematically as envisaged in the approved Mining Plan.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5b	Area under backfilling of mined out area	Not Proposed	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Back-filling has not been proposed in approved Mining Plan (MMP).

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) .	Not proposed	Nil	

6c	afforestation done (ha).	1335 no. Plantation proposed in year 2019-20	1884 no. of plantation reported done in year 2019-20	
6d	No. of saplings planted during the year		1884 no. of plantation reported done in year 2019-20	
6e	Cumulative no .of plants	-	Cumulative no. of plants 8356 nos. in 15.54 ha area within lease.	
6f	Any other method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular Environment Monitoring Proposed	Regular Environment Monitoring being carried out in periodic basis.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Back-filling has not been proposed in approved Mining Plan (MMP). PMCP compliance being carried out as envisaged in the approved Mining Plan.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatches to crusher	ROM mineral being dispatched to crusher	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	Nil	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	In the interest of Mineral conservation, blending of low grade limestone with high grade reported carried out at source and at Crusher.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and stacking of topsoil	top soil being handled and stored separately	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	OB/waste Dump maintained separately	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1335 no. Plantation proposed in year 2019-20	Baseline information provided in mining plan & 1884 no. of plantation reported done in year 2019-20	
8g	Survival rate	-	About 90 % of survival rate reported maintained	
8h	Water sprinkling on roads to control airborne dust	Proposed	Automatic sprinklers are installed along the main haul road with Electronic Control Module. Water tanker also being deployed for water sprinkling on pit roads to control airborne dust.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines is very good.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to Sep 2020 AR Submitted for FY 2019-20	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Sunil Kumar Sharma Geologist : Mrinmoy Chakraborty Mines Manager : Mukesh Kumar Sinha	Employed as given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit, roads, buildings, Plantation & dumps : around 52 ha	Area under pit, roads, buildings, Plantation & dumps : around 52 ha	
9d	Scrutiny of Annual return on afforestation	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	production cost : Rs. 210.45 /Ton	production cost : Rs. 210.45 /Ton	Captive mines
9h	Scrutiny of Annual return on fixed assets	Rs 2,08,11,42,236 /-	Rs 2,08,11,42,236/-	
9k	Scrutiny of Annual return on mining machineries	List of Mining machinery /HEMM given	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

Date :

(PREM PRAKASH)

Indian Bureau of Mines