

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-12/GOA

Mine code : 38KAR26005

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri.A.Madhavarao, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 22/04/2018
- (v) Prev.inspection date : 11/08/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALADGI (M.L.1733)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BAGALKOT
Village : KALADGI
Taluka : BAGALKOT
Post office : KALADGI
Pin Code : 587111
FAX No. : 08354-220736
E-mail : corp@bagalkotcement.com
Phone :
- (f) Police Station :
- (g) First opening date : 12/07/1997
- (h) Weekly day of rest : SUN
2. Address for : M/S BAGALKOT CEMENT & INDUSTRIES LTD
correspondance PO BAGALKOT, DIST:BAGALKOT
Karnataka
3. (a) Lease Number : KAR1067
(b) Lease area : 8.09
(c) Period of lease : 20
(d) Date of Expiry : 20/02/2020
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : BAGALKOT CEMENT & INDUSTRIES LTD
 BAGALKOT BAGALKOT
 KARNATAKA
 Phone:08354-220737
 FAX :08354-220736

Owner : M/S BAGALKOT CEMENT & INDUSTRIES LTD
 6th Floor, Block No. 1,
 Stadium House, Veer Nariman
 Road Churchgate, Mumbai
 MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone: 022-43552000/11
 FAX : 022-22022884

Agent : G R RAJAGOPALAN
 KANORIA INDUSTRIES LTD
 BAGALKOT CEMENT DIVISION
 BAGALKOT BAGALKOT KARNATAKA
 Phone: 0835-420738,423735
 FAX : 0835-420736

Manager
 Name : Shri Madhava Rao A
 Qualification : BE Mining with First Class Mines Manager
 Appointment/ : 27/10/2014
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	08/05/2002
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	20/07/2004
	:	Mining Scheme rule 12 MCDR1988	07/08/2009
	:	FMCP under 23C(1)	29/08/2009
	:	FMCP under 23C(1)	30/03/2015
	:	MP modif under 17(3) MCR 2016	30/06/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	23 Core Boreholes Proposed in Plan period	No Boreholes has drilled	Violation has pointed out under Rule 11(1)
1b	Exploration over lease area for geological axis 1 or 2	23 - Additional exploration was proposed in modified mining plan over the lease area for Geological axis - 1	Additional exploration was not carried out in the lease area for Geological axis - 1	Total 12 boreholes were drilled with 600m drilling under G-2
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were used for Exploration in the past.	Total 12 boreholes were drilled during 2015-2016. Total Rs. 9.60 lac was spent on exploration.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed out at 100m X 100m grid interval. Additional exploration was proposed in Plan period	Exploration was not carried out at 100m X 100m grid interval. Balance area of 150hect area has to be explored for availability of ore from G-2/3 to G-1.	
1e	Balance reserve as on 01/04/20	As on 01.04.2018 Proved Mineral Reserves (111) = 2636917 Tons Pre-Feasibility Mineral Resources (221) = 3587924 Tons	As on 01.04.2018 Proved Mineral Reserves (111) = 3236917 Tons Pre-Feasibility Mineral Resources (221) = 3587924 Tons	Hence there is no mining activity; R & R has not been changed.

1f	General remarks of inspecting officers on geology, exploration etc	It is part of kaladgi basin which belongs to Upper Cuddapag system	The deposit is litho unit of Lokapur sub group of Bagalkot group which belongs to Kaladgi Super group	Entire Lease is having Same Geology and Mineralogy is changes from place to place. Hence borehole has to be drilled at closer interval to get quantity and quality
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development is only Top soil, i.e. in between section line A-A' to C-C' and Coordinates of 740E-1044E to 224N-527N	Working has been not carried out as per the proposal	Violation issued under Rule 11(1)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no proposals for separate Bench's	There is no proposals for separate Bench's	
2c	Stripping ratio or ore to OB ratio	1 : 0.05	Nil reported, since no production during that period.	
2d	Quantity of topsoil generation in m3	5011 m3	Nil	
2e	Quantity of overburden generation in m3	31579 Tons	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 31579 tons of development from 2 benches	Nil	Mine is not Working because want of Statuary Clearances

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Development and production was proposed in Pit-1.	Development and production are not carried out.	Violation issued under Rule 11(1)
3b	Quantity of ROM mineral production proposed	The total target of ROM Production was 600000 tons during 2016-2017.	Nil	
3c	Recovery of sailable/usable mineral from ROM production	95 %	Nil	
3d	Quantity of mineral reject generation	No Proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	Nil	
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	No Sub Grade Generation	
3g	Grade of sub grade mineral generation	There is No Proposal for Subgrade Mineral Generation	There is No Generation of Subgrade Mineral	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method is Proposed for segregating ROM	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting was proposed. Spacing - 2.75m Burden - 2.50m Depth - 6.50m	Nil	Mine is not Working because want of Statuary Clearances

3k	Provision of mining machineries in mineral benches	Excavator- 4 No Rock Breaker - 1 No Dumper - 8 No Compressor - 1 No Water tanker - 1 No Jeep - 1 No	Nil	Mine is not Working because want of Statuary Clearances
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6m was proposed in Mineral.	Nil	
3m	Total area covered under excavation/pits	5.463 hect area is under Pit and additional 1.263 hect is required	5.463 hect areas are under Pit only.	Due to Non-working of Mines, additional area is not in use.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.05	Nil reported, since no production during that period.	
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2018. Mines = 6.726 hect Dump = 1.404 hect Infra = 0.010 hect Mine road = 1.124 hect Unused = 158.056 hect	Land use Pattern as on 01.04.2018. Mines = 5.463 hect Mine road = 0.071 hect Unused = 161.786 hect	There are no Changes in land use Pattern because of Non-Working.
3p	Production of ROM mineral during the last five year period as applicable	2017-2018 = 600000 tons 2016-2017 = Nil 2015-2016 = Nil 2014-2015 = Nil 2013-2014 = Nil	2017-2018 = Nil 2016-2017 = Nil 2015-2016 = Nil 2014-2015 = Nil 2013-2014 = Nil	During the Period 2008 to till date, the Mine was not working due to want of statutory order
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	Nil	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed for Intercalated Waste	There is no generation of OB because of Non-working	
4b	Location of topsoil, OB and mineral reject dumps	Southern Side of Lease area	No dump is present in proposed area	Mine is not Working because want of Statuary Clearances
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Dumps Non Lease area = Nil	Lease area = Nil Non Lease area = Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southern Side of Lease area outside the UPL	No dump is present in proposed area	
4e	Number of active and alive dumps.	Active Dump = Nil Alive Dump = Nil	There is no active dump within lease area for waste dumping.	
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.	Garland drain, Retaining wall was proposed on different terraces for proper waste dump & surface water management.	Because of no activity, Garland drain, Settling ponds are not constructed.	Violation issued under Rule 11(1)
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall (380m x 2m x 2.5m), Garland drainage (508m x 2m x 2m)	Nil	Violation issued under Rule 11(1)
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Single Dump, Retaining Wall, Garland Drainage are proposed	No Dump has been formed	

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal for Backfilling	No Backfilling done
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)	Topsoil removed separately and spread out on safety Zone for plantation & Dump	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Backfilling	No Backfilling

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).	It should be on or before 1st July every year.	Not Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	600 Saplings	Nil	Violation issued under Rule 11(1)
6e	Cumulative no .of plants	Total 600saplings were proposed during last year 2017-2018.	Nil	

6f	Any other method of rehabilitation	No Proposal	Nil
6g	Cost incurred on watch and care during the year	3.0 lakhs	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environment monitoring is required	Quarterly environment monitoring is carried out through own as well as private agency.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	600000 tons	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical processing i.e. Excavators, JCB, Rock Breakers for production.	Nil	
7c	Different grade of mineral sorted out at mines.	Cao = +48 % Sio2= - 2.8 % Mgo = 5.5%	Nil	
7d	Any beneficiation process at mines .	Mechanical processing i.e. Excavators, JCB, Rock Breakers for production.	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is proposal for separately remove and utilized the topsoil.	Nil, Topsoil generation is not there.	
8b	Concurrent use or storage of topsoil	Concurrent use	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One dump is for OB on the Southern Side of the Lease area	As per proposal dump is not formed	Violation issued under Rule 11(1)
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	At present there is no proposal for restoring.	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)	600 saplings per year	Nil	Violation issued under Rule 11(1)
8g	Survival rate	No proposal.	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Water sprinkling on road is observed during the inspection.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	Surrounding area beyond lease area is greenery	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = April 2018 AR Submitted up to = 2016-2017	Both Annual & Monthly returns are submitting in online system.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Mine mate are appointed.	It is advised to appoint full time Geologist & Surveyor	Due to Non-working technical persons not appointed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	For 2017-2018 yet to be submit	Land use Pattern as on 01.04.2018. Mines = 5.463 hect Mine road = 0.071 hect Unused = 161.786 hect	There are no Changes in land use Pattern because of Non-Working.
9d	Scrutiny of Annual return on afforestation	For 2017-2018 yet to be submit	Lessee has not planted any sapling, because the mine is non working from 2008	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual Return for 2017-2018 yet to be submitted and time limit is upto 1st July 2018	There is no Mineral Rejects generation	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual Return for 2017-2018 yet to be submitted and time limit is upto 1st July 2018	Mine is not Working because want of Statuary Clearances from 2008.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual Return for 2017-2018 yet to be submitted and time limit is upto 1st July 2018	Nil	
9h	Scrutiny of Annual return on fixed assets	Annual Return for 2017-2018 yet to be submitted and time limit is upto 1st July 2018	Nil	

9k	Scrutiny of Annual return on mining machineries	Annual Return for 2017-2018 yet to be submitted and time limit is upto 1st July 2018	Nil
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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
MCDR17	Rule 11(1)	10/05/2018			
MCDR17	Rule 33	10/05/2018			
MCDR17	Rule 45(5)(k)	10/05/2018			

Date :

(G. S. KANNAN)

Indian Bureau of Mines