

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST/18/BNG

Mine code : 38KAR10008

- (i) Name of the Inspecting : **S21**) **H M Shivakumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri.K Bhanu Prakash Rao- Agent Mines & Sr.GM (works),
Official with
Designation
- (iv) Date of Inspection : 20/10/2021
- (v) Prev.inspection date : 09/09/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MALKHED**
- (b) **Registration NO.** : **IBM/12191/2012**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **GULBARGA**
- Village : **MALKHED**
- Taluka : **SEDAM**
- Post office : **MALKHED ROAD**
- Pin Code :
- FAX No. : **Fax No.040-23404657**
- E-mail : **sbcplimited@gmail.com**
- Phone : **9703219073 (M), 0406661463**
- (f) **Police Station** : **MALKHED**
- (g) **First opening date** : **31/12/1980**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **SRI N UMASHANKAR, DIRECTOR,**
M/s Sri Balaji Cement & Power Limired
Kalaburagi District, Karnataka-585301
3. (a) **Lease Number** : **KAR1528**
- (b) **Lease area** : **159.38**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **01/08/2000**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : BALAJI CEMENT AND POWER LTD
 GULBARGA KARNATAKA
 Phone:040-66614633
 FAX :

Owner : Sri VVSR ANJANEYULU, Nominated Owner,
 House No. 5-5-81/12/B, Plot
 No.6, Sai Baba Colony,
 Behind Metro, Kukatpally,
 Hyderabad HYDERABAD ANDHRA
 PRADESH
 Phone: 040-23404657
 FAX : 040-666614633

Agent : K Bhanu Prakash Rao
 GULBARGA KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : M Devanand,, Full Time
 Qualification : BE IN MINING
 Appointment/ : 16/11/2020
 Termination date

Mining Engineer

Name : Mr. Abdul Khadeer, Full Time
 Qualification : BE IN MINING
 Appointment/ : 02/03/2015
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	02/08/1993
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	04/08/2005
		Modif.of approved Mining Plan	04/02/2009
		Mining Scheme rule 12 MCDR1988	29/09/2015
		MP review under 17(1) MCR 2016	29/06/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	01 Bore hole of 60mts depth	Nil	Violation issued.
1b	Exploration over lease area for geological axis 1 or 2	-	Nil	15.878 at G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	No exploration carried out and expenditure incurred.
1d	Balance area to be explored to bring Geological axis in 1 or 2	48.852 Ha	Nil	Nil
1e	Balance reserve as on 01/04/20	13.546 Million Tonnes	-	Only 10% of Production achieved
1f	General remarks of inspecting officers on geology, exploration etc			The area is not fully explored , Exploration proposed during 2020-21 & 2021-22 not yet carried out yet. Violation issued.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1895020-1895283 to E729497-729849	N1895041-1895305 to E729650-729689	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches in mineral, OB is proposed.	Seperate benches maintained in mineral.	Development as proposed is not achieved and violation issued.
2c	Stripping ratio or ore to OB ratio	1:0.03	1:0.026	Nil
2d	Quantity of topsoil generation in m3	15,394 tonnes	13,546 tonnes	Nil

2e	Quantity of overburden generation in m3	35,920 tonnes	Nil	No development carried out production done only in broken up area, violation issued.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The proposed quantity of development is not achieved and violation issued.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	NIL
3b	Quantity of ROM mineral production proposed	1,358,092.500	1,43,450	Only 10% of proposed production is achieved and violation issued.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Entire ROM is sent to crusher and utilized in cement manufacturing.
3d	Quantity of mineral reject generation	No proposal	NIL	No mineral reject is generated.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Threshold value for CaO 34% (min) so No mineral reject	No mineral reject is generated.
3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil
3g	Grade of sub grade mineral generation	-	-	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal for segregating ROM	-	Entire ROM is sent to crusher and cement manufacturing and no proposals for segregating by any method.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and blasting proposed.	Carried out as per proposal.	115 mm drill dia used, blasting carried out with AMFO /Slurry explosive along with detonator combination.
3k	Provision of mining machineries in mineral benches	Provided	Excavator 0.9 cum & 0.7cum - 2 nos Tipper(15cum) - 3 nos Drill(115mm)-1 no	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No OB Benches	Mineral Bench 7-8M	Nil
3m	Total area covered under excavation/pits	14.27	11.4040	Violation issued for less production and development.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.03	1:0.09	
3o	Total area put in use under different heads at the end of year	-	-	NIL
3p	Production of ROM mineral during the last five year period as applicable	2016-17:13,02,503 2017-18:13,05,810 2018-19:12,99,870 2019-20:8,57,543 2020-21:13,58,092 (in tonnes)	2016-17:1,32,636 2017-18:1,57,853 2018-19:1,53,507 2019-20:1,68,055 2020-21:1,43,450 (in tonnes)	Only 10% of Production achieved during 2021-21, violation issued.
3q	General remarks of inspecting officers on method of mining etc.			The overall ROM production for the year 2020-21 is 90% less than the proposal , 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)	Yes	Yes	NIL
4b	Location of topsoil, OB and mineral reject dumps	1) North West:- N1894995-1895004 to E729492-729527 2) South:- N1895360-1895382 E729930-730063	1) North West:- N1894995-1895004 to E729492-729527 2) South:- N1895360-1895382 E729930-730063	Top soil dump provided as field coordinates.
4c	Number of dumps within lease area and outside of lease area	0	2	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	2 Topsoil dumps within safety zone	2 Topsoil dumps within safety zone	NIL
4e	Number of active and alive dumps.	0	2	Nil
4f	Number of dead dumps.	0	0	Nil
4g	Number of dumps established.	0	0	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain made all along the dumps	Garland drain made all along the dumps	NIL
4i	Length of Retaining wall or garland drain all along dumps	Nil	1.3Kms garland drain.	Nil
4j	Number of settling ponds	0	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			No specific comments.

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.	Nil	Nil	Nil
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	-	-	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not matured for backfilling as the mineral limestone persists at depth.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted but not in prescribed format	Submitted but not in prescribed format Nil	Violation issued.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.50	0.37	Nil
6d	No. of saplings planted during the year	750	750	Nil
6e	Cumulative no .of plants	6500	6250	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	-	Nil	Regular monitoring of environmental parameters had not been carried out after Nov 2020. Violation issued.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The lessee has carried out PMCP activities as proposed. However violation issued for non submission of PMCP report in prescribed format and not carrying out regular monitoring of environment parameters.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	13,58,092	1,43,450	Violation issued for less ROM production.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Cement Grade	ROM is transported to crusher for further sizing only.
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
7d	Any beneficiation process at mines	Nil	Nil	Dry crusher of 100TPH of SAYAJI MAKE
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire ROM is utilized in cement production and no beneficiation is required . Mineral conservation aspect is taken care of.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	The top black soil will be generated during the scheme and dumped in trapezoid shape embankment along the safety zone	The top black soil dumped in trapezoid shape embankment along the safety zone	Nil
8b	Concurrent use or storage of topsoil	Top soil dumped at buffer zone and also used for plantation	Top soil dumped at buffer zone and also used for plantation	7500 tonnes
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed to plant 750 saplings per year	Planted 750 saplings	Nil
8g	Survival rate	85%	70%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Dripping System provided and one water tanker deployed for water sprinkling.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The aesthetics in and around the mine is maintained satisfactorily.
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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 upto September 2021 AR for 2020-21 submitted on 17/06/2021		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer - Sri Abdul Khadir, Geologist - None		Violation issued for non compliance of geologist Rule 45(7).
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	750 saplings planted within ML area with 70 % survival rate.		Appears to be correct.
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generation.		Appears to be correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost			DMF, NMET, Royalty details not included in cost of production. Violation issued.
9h	Scrutiny of Annual return on fixed assets			Rs 14,57,546/- shown as land sold which is not correct. Violation issued.

9k Scrutiny of
Annual return on
mining
machineries

Depreciation on
plant and mining
machinery not
accounted for
2020-21 ,
Violation issued.

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)	03/11/2021			
MCDR17	Rule 19(1)	03/11/2021			
MCDR17	Rule 26(2)	03/11/2021			
MCDR17	Rule 33	03/11/2021			
MCDR17	Rule 43	03/11/2021			
MCDR17	Rule 45(7)(a)	03/11/2021			
MCDR17	Rule 55(1)(1)	03/11/2021			

Date :

(H M Shivakumar)

Indian Bureau of Mines