

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/GNR/LST-48/HYD

Mine code : 38APR07054

- (i) Name of the Inspecting : 25) SHRI IBRAHIM SARIF
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri J Ramakrishna-Mines Manager
Official with
Designation
- (iv) Date of Inspection : 20-NOV-21
- (v) Prev.inspection date : 30-JAN-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : KRISHNA LIMESTONE MINE(57)
- (b) **Registration NO.** : IBM/5580/2011
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : GUNTUR
- Village : TANGEDA
- Taluka : DACHEPALLE
- Post office : TANGEDA
- Pin Code : 522414
- FAX No. : 08649273819
- E-mail : mines.bhavyacements@gmail.c
- Phone : 9491066936
- (f) **Police Station** : Dachepalli
- (g) **First opening date** : 02-APR-12
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s. Bhavya Cements Limited,
Tangeda(Village), Dachepalli(Mandal)
Guntur district,AP-522414
3. (a) **Lease Number** : APR3189
- (b) **Lease area** : 57.19
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 28-APR-40
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S BHAVYA CEMENTS LTD
 A-1, 2ND FLOOR, BHAVYA'S
 SPOORTHY BHAVAN JUBILEE
 HILLS HYDERABAD TELANGANA
 Phone: 040-23558384
 FAX : 040-23558393

Owner : P.SIVA KUMAR
 PLOT.NO.A, 2ND
 FLOOR, BHAVYA'S SPOORTHY
 BHAVAN, FILM NAGAR, JUBILEE
 HILLS HYDERABAD TELANGANA
 Phone: 040-23558384
 FAX : 040-23558393

Agent : Sri.A.Amrutha Raju
 Tangeda (V), Dachehalli(M)
 Guntur dt. GUNTUR ANDHRA
 PRADESH
 Phone:
 FAX :

Mining Engineer

Name : B.JAGDEESH KUMAR, Full Time
 Qualification : AMIE
 Appointment/ : 01-FEB-17
 Termination date

Manager

Name : P.SURESHBABU
 Qualification : DIPLOMA IN MINING
 Appointment/ : 30-SEP-16
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23-FEB-10
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	03-NOV-16
		MP review under 17(1) MCR 2016	24-JUL-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2020-21 - No exploration proposal.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2020-21 - No exploration proposal.	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	2020-21 - No exploration proposal.	Nil	M/s Mapp Drilling and Exploration Pvt. Ltd. Hyderabad and M/s NRDCS, Hyderabad Rs. 18,74,300/- spent on exploration so far.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	-	Entire lease area has been explored in G1 scale
1e	Balance reserve as on 01/04/20	As per recent approved RMP on 24.07.2020 - 111 : 4.897 million Tonnes Reserves proposed to be depleted in the year 2020-21 : 8675 Tonnes Balance Reserves after depletion to be as on 01.04.2021 : 4.891 Million Tonnes	Reserves depleted in the year 2020-21 : 2,800 Tonnes only. Thus, the Balance Reserves as on 01.04.2021 : 4.895 Million Tonnes	

1f	General remarks of inspecting officers on geology, exploration etc	Entire area has been explored in G1 Scale. The deposit is of simple stratified tabular in nature without any structural disturbances.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It is proposed to carry out Development and Production within grid interval N 1840500 to 1840700 E 373100 to 373300	Duirng the inspections it was observed that development is being carried out as per approved proposals.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal as top soil is of 0.5 meters only and no OB available	Nil	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	
2d	Quantity of topsoil generation in m3	No proposal of Top soil generation during the year 2020-21	Nil	
2e	Quantity of overburden generation in m3	No proposal of overburden generation during the year 2020-21	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mining operations are being carried out systematically as per the proposals by using HEMM by maintaining bench height of 5 meters and width of about 15 meters.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It was proposed to work from one pit only.	It was observed that only one pit is being operated.	
3b	Quantity of ROM mineral production proposed	2020-21 : 8863 Tonnes	2020-21 : 2800 Tonnes	Cement plant could not be operated to its full capacity due to slump in cement market and financial difficulties etc.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No MR generation assessed and no proposal in 2020-21.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	-	
3f	Quantity of sub grade mineral generation.	No Sub Grade ore generation is anticipated and no proposal in 2020-21.	Nil	
3g	Grade of sub grade mineral generation	Not applicable.	-	

3h	Manual / Mechanised method adopted for segregating from ROM	No segregation proposed in 2019-20. Entire ROM proposed to be used	Entire ROM used in cement plant.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal in 2020-21.	-
3j	Provision of drilling and blasting in mineral benches	Wagon drill- 115 mm dia.Burden-3m, spacing-4m, depth of hole- 5.5m,Booster- 83mm,Slurry Explosive:ANFO -20:80	Deep Hole drilling is being carried out by using 115 MM dia Drill (2 nos) and Blasting is being conducted by maintaining Burden of 3 meters and Spacing of 4 Meters and depth of drill hole is 5.8 meters including subgrade drilling.Booster- 83mm,Slurry Explosive:ANFO-20:80.
3k	Provision of mining machineries in mineral benches	Provision is made for operating mining machinery in the mineral benches	HEMM being utilised are Excavator of 0.9 m3 capacity -3 Nos,Dumper of 17T capacity, 115 mm dia Wagon Drill-1 No.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of bench - 05 mtrs is proposed using boom length of 0.9 cum capacity excavator	Yes 5 meters bench height is suitable
3m	Total area covered under excavation/pits	0.720 Ha	0.41 Ha
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil

3o	Total area put in use under different heads at the end of year	3.14 Ha.	Area put to use is within approved proposals
3p	Production of ROM mineral during the last five year period as applicable	2020-21 - 8862 Tonnes 2019-20 - 26590 Tonnes 2018-19 - 26939 Tonnes 2017-18 - 26909 Tonnes 2016-17 - 25504 Tonnes	2020-21 - 2800 Tonnes 2019-20 - 10300 Tonnes 2018-19 - 10190 Tonnes 2017-18 - 10925 Tonnes 2016-17 - 7350 Tonnes
3q	General remarks of inspecting officers on method of mining etc.		Fully mechanised Opencast Mining has been adopted by using HEMM like 2.5 cum excavator, 17 T dumpers with 115 mm dia drilling machines, Dozer etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No such proposal approved for OB, MR. Proposal for separate stacking of IW (Intercalated Waste).	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No proposal for the year 2020-21	Nil	
4c	Number of dumps within lease area and outside of lease area	Not applicable	Nil	No waste generation is anticipated during the plan period.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable -		

4e	Number of active and alive dumps.	Not applicable -	
4f	Number of dead dumps.	Not applicable -	
4g	Number of dumps established.	Not applicable -	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable -	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable -	
4j	Number of settling ponds	Not applicable -	
4k	Specific comments of inspecting officer on waste dump management		No comments as there is no generation of waste during the year.

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 such proposal in 2020-21.	Mineral is still to be mined upto UPL & is still to be exhausted.	
5b	Area under backfilling of mined out area	-	Nil, as no part of the lease area is matured to start backfilling.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposals	Nil	
5d	Total area fully reclaimed and rehabilitated	No such proposal in 2020-21.	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mineral is yet to be extracted upto UPL.No portion of the lease area is matured for back filling and reclamation.
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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, the annual report on PMCP to be submitted by lessee on time.	The annual report under rule 26(2) submitted by lessee on time.	
6b	Area available for rehabilitation (ha) .	No such proposal for worked out benches in 2020-21.	Nil	
6c	afforestation done (ha).	Area 0.03 Ha	Area 0.08 Ha	
6d	No. of saplings planted during the year	No. of plants - 70	No. of plants - 105	
6f	Any other method of rehabilitation	No such proposal for worked out benches in 2021-21.	-	
6g	Cost incurred on watch and care during the year	---	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal in 2020-21.	Nil	Mineral is yet to be extracted upto UPL.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal in 2020-21.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	-	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	-	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	-	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No such proposal in 2020-21.	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	-	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	-	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring is to be done regularly.	Quarterly environmental monitoring is being Done regularly.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Quarterly monitoring of environmental parameters in core and buffer zone being carried out regularly.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting, entire ROM produced to be dispatched to use for captive use in cement plant	No grade wise sorting ROM total quantity being used for captive consumption.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable -		
7c	Different grade of mineral sorted out at mines.	Not Applicable -		
7d	Any beneficiation process at mines .	No such proposal of beneficiation, except Crushing of ore.	Crushing is being carried out	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire ROM is being consumed in captive cement plant

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during the year	No top soil generated	
8b	Concurrent use or storage of topsoil	No proposal for the year 2020-21	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable as no proposal of any generation of OB, reject, fines etc.for the year 2020-21	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal in 2020-21	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable.	-	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No. of plants - 70 Area 0.03 Ha.	No. of plants - 105 Area 0.08 Ha.	
8g	Survival rate	Not mentioned in the approved document	About 70%	

8h	Water sprinkling on roads to control airborne dust	05 KL water tanker to be deployed for sprinkling of water on transportation of haul roads and dry fog system on crusher and blasting muck file wetting to control the air bourne dust.	Water tanker used for sprinkling of water on transportation of haul roads, dry fog system on crusher and blasting muck file wetting is being adopted to control the dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is beimg carried out to improve aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns up to September 2021 and Annual returns for the year 2020-21 to be submitted in time.	Monthly Returns up to September 2021 and Annual returns for the year 2020-21 has been submitted in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	B.Jagadeesh, BE(Mining) P.Suresh Babu, Mines Manager Mohammed Mastaan : Geologist	B.Jagadeesh, BE(Mining) P.Suresh Babu, Mines Manager Mohammed Mastaan : Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 0.41 Ha. Roads & Buildings - 2.017 Ha. & Green belt development - 2.59 Ha	Pit - 0.41 Ha. Roads & Buildings - 2.017 Ha. & Green belt development - 2.59 Ha	

9d	Scrutiny of Annual return on afforestation	No. of plants - 105	No. of plants observed in the field - 105
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	565 Tonnes	565 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine Price = Cost of Production = Rs. 448/-	Ex mine Price = Cost of Production = Rs. 448/-
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Excavators: 0.9cum capacity- 1 No., Dumper: 6 cum- 2 Nos, Drilling machines-115 mm dia- 1 No. Water tanker-1 no., Air Compressor- 450 cum	Excavators: 0.9cum capacity- 1 No., Dumper: 6 cum- 2 Nos, Drilling machines-115 mm dia- 1 No. Water tanker-1 no., Air Compressor- 450 cum

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

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines