

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri J Ramakrishna-Mines Manager
Official with
Designation
- (iv) Date of Inspection : 30/01/2021
- (v) Prev.inspection date : 02/02/2020

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.co**
- Phone : **9491066936**
- (f) **Police Station** : **Dachepalli**
- (g) **First opening date** : **02/04/2012**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **M/s. Bhavya Cements Limited,**
correspondance **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** : **28/04/2040**
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), Dachepalli(M)
 Guntur dt. GUNTUR ANDHRA
 PRADESH
 Phone:
 FAX :

Mining Engineer
 Name : B.JAGDEESH KUMAR,Full Time
 Qualification : AMIE
 Appointment/ : 01/02/2017
 Termination date

Manager
 Name : P.SURESHBABU
 Qualification : DIPLOMA IN MINING
 Appointment/ : 30/09/2016
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/02/2010
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	03/11/2016
		MP review under 17(1) MCR 2016	24/07/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2019-20.	12 nos. core boreholes for total drilling meterage of 480m.	
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal in 2019-20.	12.8 Ha. converted to G1 from G2 level of exploration.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposal in 2019-20.	M/s NRDCS, Hyderabad. Cost for exploration as reported by Lessee is approximately Rs.7,20,000/- (Including sample analysis).	
1d	Balance area to be explored to bring Geological axis in 1 or 2	12.8 Ha.	12.80 Ha in 2019-20. EHow ever the ntire lease area has been explored under G1 level of exploration.	
1e	Balance reserve as on 01/04/20		4892172 tonnes -Reserves as on 31.03.2020	Reserves/Resources as per approved RMP dt. 24/07/2020 is 4.897 million tonnes in (111) category, 1.780 million tonnes in (221) and (222) Category.
1f	General remarks of inspecting officers on geology, exploration etc		Entire mineralised area has been explored under G1 scale by 34 Nos. of boreholes in 190m x 190m grid interval with 1360 meterage. Mineralisation is continuing beyond 40m depth from surface.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N17750 - N17680 to E9045 - E9120	Mining operations are being carried out within proposals.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No such proposal for top soil and OB. Only benches to be developed in mineral.	Only one bench of 5m height has been developed in mineral only.	

2c	Stripping ratio or ore to OB ratio	No such proposal in 2019-20	Nil	
2d	Quantity of topsoil generation in m3	1286m3	1755 tonnes/1032m3	
2e	Quantity of overburden generation in m3	No such proposal in 2019-20	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The deposit in the lease is simple deposit of stratiform, stratabound of regular habit. The area is of flat topography with maximum elevation of 93m above MSL.	The mine pit development is at initial stage. One pit with one bench of 5m height has been developed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	26590 tonnes	10925 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%, entire ROM is being used in cement plant	
3d	Quantity of mineral reject generation	No generation of mineral reject assessed and also there is no proposal in 2019-20.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	No generation of subgrade assessed and also there is no proposal in 2019-20.	Nil	

3g	Grade of sub grade mineral generation	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposal for segregation during 2019-20 as entire ROM is usable directly.	Not applicable. No segregation of ROM is required.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal for beneficiation as entire ROM is directly consumable in the process.	Not done.
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and blasting. Wagon Drill- 115 mm dia, Burden - 3m, spacing - 4m, depth of hole 5.5m.	Mining operations are being carried out by Deep hole drilling (115 mm dia drill) by maintaining burden of 3m and spacing of 4m. Blasting is being carried out using slurry explosives with delay detpnators.
3k	Provision of mining machineries in mineral benches	Excavator - 0.9 cum -1 No., Tippers - 17T - 2nos., Drilling Machine - 1 No., Water tanker-1 No. - 5 KL.	The machineries proposed are being used in the mines.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 5m is suitable for the rated capacity of the same	Yes, suitable.
3m	Total area covered under excavation/pits	1.020 Ha.	0.376 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	No such proposal in 2019-20	Nil
3o	Total area put in use under different heads at the end of year	2.8222 Ha.	2.796 Ha.

3p	Production of ROM mineral during the last five year period as applicable	2015-16 - Nil 2016-17 - 25,504 MT 2017-18 - 26,909 MT 2018-19 - 26,939 MT 2019-20 - 26,590 tonnes	2015-16 - Nil 2016-17 - 7,350 MT 2017-18 - 10,300 MT 2018-19 - 10,190 MT 2019-20 - 10,925 tonnes
3q	General remarks of inspecting officers on method of mining etc.	Fully mechanised method using HEMM with deep hole drilling and blasting is being adopted by maintaining bench height of 5m and width more than height. Only small pit is developed by the lessee so far.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for OB & MR. Top soil proposed to be spreaded in 7.5m safety zone	No OB, MR generated. Top soil spreaded in 7.5 m safety zone for plantation purpose.	
4b	Location of topsoil, OB and mineral reject dumps	No proposal for OB & MR. Top soil has been proposed to be spreaded in 7.5m safety zone	No OB, MR generated. Top soil spreaded in 7.5m safety zone and utilised for plantation purpose	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	
4e	Number of active and alive dumps.	Not applicable	Not applicable	
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.	Not applicable	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable
4j	Number of settling ponds	Not applicable	Nil
4k	Specific comments of inspecting officer on waste dump management		There is no waste generation and also no waste dump is there within the ML.

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 2019-20.	Mineral is yet to be extracted upto UPL & is still to be exhausted.	No portion of the ML is matured to start backfilling.
5b	Area under backfilling of mined out area	Not applicable	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is proposal for generation of top soil and to be used for plantation.	1755 tonnes generated during 2019-20 & spreaded in 7.5m safety zone for plantation in between - BP-1 & 2.	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		No area is matured for backfilling, hence there is no reclamation.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted	Submitted for the year 2019-20 on 01.06.2019.
6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	0.25 Ha	0.25 Ha
6d	No. of saplings planted during the year	80 nos. in 0.25 Ha.	85 in 0.25 Ha.
6e	Cumulative no .of plants	320 nos plants in 2016-17 to 2019-20	525 nos plants in 2.51 Ha.
6f	Any other method of rehabilitation	No proposal in 2019-20.	Nil
6g	Cost incurred on watch and care during the year		Rs 124100.00 during 2019-20.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal in 2019-20.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal in 2019-20.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal in 2019-20.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal in 2019-20.	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal in Nil 2019-20.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal in Nil 2019-20.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal in Nil 2019-20.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal in Nil 2019-20.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring is to be done.	Environment monitoring is being done regularly. Ambient Air Quality- 4 core zone location and 8 buffer zone location Noise Level- 4 core and 7 buffer zone location Water Quality- 3 nos. in buffer zone location
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Lessee is developing Green belt developing along ML boundary to improve the aesthetic beauty and carrying regular environmental monitoring.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting proposed. Entire ROM is to be used in cement plant.	No grade wise sorting is being done. Entire ROM quantity being used in cement plant for captive consumption.	

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	Not applicable	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Entire ROM is being utilised in cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed to be spreaded for the plantation within 7.5 m barrier along the lease boundary.	Top soil generated has been spreaded along 7.5m safety zone and utilised for plantation during the year.	
8b	Concurrent use or storage of topsoil	For plantation	Top soil generated has been utilised for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal in 2019-20.	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal in 2019-20.	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in Nil 2019-20.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Cumulative 525 no. of plants planted in an area of 2.51 Ha. During 2019-20 a total of 85 nos saplings planted in 0.25 Ha.
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	5 KL water tanker used for sprinkling of water on transportation of haul roads, blasing muck file on crusher and blasing muck file wetting.	5 KL water tanker used for sprinkling of water on transportation of haul roads, dry fag system on crusher and blasing muck file wetting.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantation is being carried out by the lessee to improve the aesthetic beauty in and around lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per Rule 45	All Returns submitted within time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	B Jagadeesh, BE Mining Geologist - Mohammed Mastan Pasha Mines Manager - P. Suresh Babu	Appointed.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be submitted	Mining pit - 0.376 Ha. Total area put to use - 2.796 Ha.
9d	Scrutiny of Annual return on afforestation	No. of plants 85	No. of plants 85
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	1765 tonnes graded Ore	1765 tonnes of cement grade limestone (graded ore) as per production, stock, despatch register maintained for 2020-21.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs.190/-	Rs.190/-
9h	Scrutiny of Annual return on fixed assets	Nil	The combined figure has been furnished in Bhavya Limestone Mine (38APR07052).
9k	Scrutiny of Annual return on mining machineries	Excavators - 0.9 Cum., Tippers - 17 T, Drilling machine - 115 mm dia drill bit.	Machineries mentioned in returns are found to be used by lessee.

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 :

(S K MUDULI)

Indian Bureau of Mines