

**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 : **PR09** ) **M.Pratap.Reddy**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : SURESH KUMAR MINES MANAGER.  
Official with  
Designation
- (iv) Date of Inspection : 15/07/2018
- (v) Prev.inspection date : 30/08/2017

**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..**
- Phone : **9491066936**
- (f) **Police Station** : **Dachepalli**
- (g) **First opening date** : **02/04/2012**
- (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** : **28/04/2040**
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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	9 Boreholes were proposed in the year 2017-18.	However, the lessee has drilled 30 Boreholes covering the entire ML area.	No intimation in Form I/J about the exploration already carried out has been intimated and hence Rule 47 of MCDR 2017 has been pointed out to the lessee on 27/7/2018
1b	Exploration over lease area for geological axis 1 or 2	G2 Scale of Exploration	G1 Scale of exploration.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No details of proposed exploration Agency and expenditure is given.	Exploration agency:NRDCS, Himayatnagar, Hyderabad-500029. The expenditure incurred is Rs.5,56,560/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	17 ha	The entire ML area(57.191 ha) has been explored to G1 scale of exploration.	
1e	Balance reserve as on 01/04/20	49,10,308	49,27,462	The balance reserve is on higher side since the anticipated production has not been achieved due to less intake of Limestone by the Plant.
1f	General remarks of inspecting officers on geology, exploration etc	The deposit is simple sedimentary bedded deposit of Type-I category of UNFC system.	The deposit falls in Type-1 of UNFC system and it pertains to Nargi group of formation of Kurnool group (Equivalent of Semri series of Vindhyan system. The total extent of ML area (57.191 ha) has been explored to the G1 level of exploration.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t.lease area	Along the section line 1-2' between RLs 89-83 (One bench)	Development cum production has been carried out along the section line 1-2' between RLs 89-83 .	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No such proposal is made.	-	There exists no overburden.
2c	Stripping ratio or ore to OB ratio	Nil	-	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development cum production is proposed along section 1-2' in one bench.	Development is in the form of formation of Limestone benches. There is no existance overburden.Thus there is no top soil/OB benches. One bench in Limestone has been formed.	

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One.	
3b	Quantity of ROM mineral production proposed	26,909 T Limestone.	10,300 T Limestone	Production achived is less due to lack of demand from the Cement Plant.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	-	

3e	Grade of mineral rejects generation and threshold value declared.	No mineral rejection proposals exists. The Threshold value for Limestone is CaO=34% (Min) &MgO=5%(Max).	There is no generation of mineral rejects. The Limestone occurring in the ML area is above threshold limits.	
3f	Quantity of sub grade mineral generation.	Nil	-	
3g	Grade of sub grade mineral generation	No such proposal has been made.	-	
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposals have been made.	-	The entire ROM is consumed.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals have been made.	-	
3j	Provision of drilling and blasting in mineral benches	Yes	Provision of drilling and blasting in mineral benches has been made as per the proposals made in the approved document.	
3k	Provision of mining machineries in mineral benches	Yes	Provision for the development of mining machinery in mineral benches has been made.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposals on OB as there is no OB. 6m bench height proposals have been given in Limestone.	As proposed 6m bench height in Limestone is maintained.	
3m	Total area covered under excavation/pits	0.51 ha	0.37 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.09	nil	
3o	Total area put in use under different heads at the end of year	1.94 ha	1.722 ha	

3p	Production of ROM mineral during the last five year period as applicable	2013-14=20,00,000 T, 2014-15=18,00,000 T, 2015-16=Lapsed period, 2016-17=25,504 T & 2017-18=26,939 T.	2013-14=5,000 T, 2014-15=3,000 T, 2015-16=Nil production, 2016-17=7,350 T & 2017-18=10,300 T.
3q	General remarks of inspecting officers on method of mining etc.	Opencast fully mechanised method of mining is proposed.	The mining operations are being carried out by opencast fully mechanised method of mining is practiced.

## 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 has been made.	-	There is no generation of overburden. The top soil generated is being concurrently used for afforestation pupose.
4b	Location of topsoil, OB and mineral reject dumps	No such proposal has been given.	-	
4c	Number of dumps within lease area and outside of lease area	No such proposal has been given	-	No dumps exists with in and out side ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No such proposal has been given.	-	
4e	Number of active and alive dumps.	Nil	-	
4f	Number of dead dumps.	Nil	-	
4g	Number of dumps established.	Nil	-	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposals have been given.	-	

4i	Length of Retaining wall or garland drain all along dumps	No such proposals have been given.	-
4j	Number of settling ponds	Nil	-
4k	Specific comments of inspecting officer on waste dump management	There exists no waste dump and hence the management of waste dump does not arise.	

---

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 has been made.	-	
5b	Area under backfilling of mined out area	No such proposal has been made.	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal has been made.	-	
5d	Total area fully reclaimed and rehabilitated	No such proposal has been made.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No such proposal is made.	-	The mineral is yet to exhaust and backfilling and reclamation at this stage does not arise.

---

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	No information in the prescribed format has been furnished.	Violation of Rule 26(2) of MCDR 2017 is pointed out on 27/7/2018.
6b	Area available for rehabilitation (ha) .	No such proposal is made.	-	
6c	afforestation done (ha).	Yes.	Afforestation is done.	
6d	No. of saplings planted during the year	80 saplings	120 saplings.	
6e	Cumulative no .of plants	250 saplings	290 saplings.	
6f	Any other method of rehabilitation	No such proposal is made.	-	
6g	Cost incurred on watch and care during the year	No such proposal is made.	Around Rs.10,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No such proposal is made.	-	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal is made.	-	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposal has been made.	-	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal has been made.	-	



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal has been made.	-	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal has been made.	-	There is no waste land with in the ML area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal has been made.	-	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal has been made.	-	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quartely monitoring of Environmental parameters is proposed.	As proposed, monitoring of Environmental prarmeters is being done on the quarerly basis both in core and buffer zones.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No progressive closure operations have been proposed during the Plan period 2016-17 to 2019-20	Afforesation in the safety barrier zone is being carried out. Periodical monitoring of Environmental parameters is being carried out both in Core and buffer zone. The parameters were found with in permissible limits.	

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	26,909 T ROM of Limestone. No gradewise proposals exists.	10,303 T of ROM Limestone.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposal has been made.	The entire ROM is consumed.	

7c	Different grade of mineral sorted out at mines.	No such proposal is made.	-
7d	Any beneficiation process at mines	No such proposal is made.	Except sizing, no beneficiation is practiced.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The entire ROM is meant for captive consumption.	The entire ROM is consumed in the Cement Plant.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed.	A thin veir of soil that exists is being removed.	
8b	Concurrent use or storage of topsoil	Yes.	The top soil that has been removed is concurrently and productively used for afforestation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposal has been made.	-	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such propsal has been made.	-	There exists neither overburden, waste rock, rejects and fines dumps for resorting the land to its original use.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal has been made.	-	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Existing plantation is 170 saplings and proposed sapling in 2017-18 is about 80 saplings.	Existing saplings is about 170 and saplings done in 2017-18 is about 120 saplings .
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Periodical water sprinkling is done to arrest airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Afforestation is proposed in and around the ML area to improve the aesthetic beauty.	The proposed afforestation is done to improve the aesthetic beauty in and around the ML area.

---

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return shall be submitted before 10th of every month in respect of preceding month. Annual return shall be submitted before 1st July each year for the preceding Financial year.	Submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be furnished.	No Geologist has been appointed.	Rule 55(1)(c) has been pointed out to the lessee on 27/7/2018
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be furnished.	Details have been furnished.	

9d	Scrutiny of Annual return on afforestation	Details to be furnished.	Details have been furnished.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details to be furnished.	Information furnished to be nil.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	ROM stock furnished to be 2650 T Limestone.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	The sale/Ex-mine price furnished to be Rs.190/-	
9h	Scrutiny of Annual return on fixed assets	To be furnished.	Value of Fixed Assets (in Rs.) 11080974 /-	This figure furnished is common for two mines viz.1) Tangeda Limestone mine and 2) Krishna Limestone mine.
9k	Scrutiny of Annual return on mining machineries	To be furnished.	Mining machinery details have been furnished.	

---

**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 26(2)	27/07/2018				
Rule 47	27/07/2018				
MCDR17 Rule 55(1)(3)	27/07/2018				

**Date :**

**(M.Pratap.Reddy)**

Indian Bureau of Mines