

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/GNR/LST-61/HYD

Mine code : 38APR07052

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 01/02/2020
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TANGEDU(346.32 HA)**
- (b) **Registration NO.** : **IBM/5580/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **ANDHRA PRADESH**
- District : **GUNTUR**
- Village : **TANGEDA**
- Taluka : **DACHEPALLI**
- Post office : **TANGEDA**
- Pin Code : **522414**
- FAX No. : **08649-273819**
- E-mail : **bhavyacementworks@gmail.com**
- Phone : **08649-273900**
- (f) **Police Station** : **DACHEPALLY**
- (g) **First opening date** : **01/10/2010**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Plot No.1, Bhavya Spoorti Bhavan, Jubilee Hills,
Film nagar
Hyderabad-500 033**
3. (a) **Lease Number** : **APR3190**
- (b) **Lease area** : **346.32**
- (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
 GUNTUR ANDHRA PRADESH
 Phone:
 FAX :

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 : K HARSHATH, Full Time
 Qualification : B TECH MINING
 Appointment/ : 02/11/2016
 Termination date

Geologist

Name : B MAHESWARA, Full Time
 Qualification :
 Appointment/ : 22/09/2014
 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	31/08/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2017-18-- - 14, 2018-19--- 13, 2019-20---14 2019-20 --- 14	2017-18---27, 2018-09---13, 2019-20---16	
1b	Exploration over lease area for geological axis 1 or 2	49.96	49.96	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s NRDCS Hyderabad 500029	M/s NRDCS, Hyderabad Rs. 8,65,000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire lease area has been explored in G1 scale		
1e	Balance reserve as on 01/04/20	207.275 Million Tonnes	207.275 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.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It is proposed to carry out development in the North and Eastern part of the pits.	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 seperate benches are proposed for topsoil.Only benches in Mineral are proposed.	No seperate bench of Top soil and Ore is maintained separately	
2c	Stripping ratio or ore to OB ratio	01:00.3	1 : 0	

2d	Quantity of topsoil generation in m3	NIL	Nil
2e	Quantity of overburden generation in m3	25,438 m3 in 2018-19 54,664 m3 in 2019-20	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 8 meters and width oid about 20 meters.

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	17,53,444 tonnes : 2018-19 37,67,920 TOnnes : 2019-20	12,02,100 tonnes : 2018-19 5,60,900.00 up to September 2019	We could not operate our plant to its full capacity due to slump in cement market and financial difficulties etc.
3c	Recovery of sailable/usable mineral from ROM production	Total ROM to be used in plant	Total ROM generated is being utilised in captive cement plant of the lessee company	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NIL	NIL	

3h	Manual / Mechanised method adopted for segregating from ROM	It was proposed operate the lease by way of mechanised method	The mining operations are being carried out by way of mechanised method
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Provision has been made for carrying out drilling and blasting in minerals benches	Yes, Deep Hole drilling is being carried out by using 115 MM dia Drill and Blasting is being conducted by maintaining Burden of 3 meters and Spacing of 5 Meters and depth of drill hole is 8.8 meters including subgrade drilling.
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 2.5 m3 capacity -3 Nos, Dumper of 30T capacity -10 Nos., Drilling Machine - 115 mm dia - 2nos,, Dozer- (155 HP) - 1 No, Pump- 22 HP-1 No.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	As per Modified Mining Plan Height of bench - 08 mtrs.	Yes 8.0 meters bench height is suitable by deploying 2.5 cum cap excavator
3m	Total area covered under excavation/pits	24.999 Ha	21.999 Ha
3n	Ore to OB ratio for the pit/mine during the year.	01:00.3	Nil
3o	Total area put in use under different heads at the end of year	57.9 ha	51.169 ha

3p	Production of ROM mineral during the last five year period as applicable	2015-16-4.0 Mill.tonnes 2016-17=1.75Mill.tonnes 2017-18 = 1.758 Mill.tonnes 2018-19 = 1.753 Mill.tonnes 2019-20=3.767Mill.tonnes	2015-16 = 0.97 Mill.tonnes 2016-17=1.05 Mill.tonnes 2017-18 = 0.943 Mill.tonnes 2018-19 = 1.202 Mill.tonnes 2019-20=0.56 Mill.tonnes (up to Sept 2019)	Mining operations are being carried out by mechanised method by maintaining bench ht of 8 m , using HEMM & deep hole drilling and blasting.
3q	General remarks of inspecting officers on method of mining etc.		Mining operations are of Fully mechanised Opencast Mining is adopted by using HEMM like 2.5 cum excavator, 20 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)	NIL	NIL	
4b	Location of topsoil, OB and mineral reject dumps	Nil	Nil	
4c	Number of dumps within lease area and outside of lease area	Nil	Only one old dead dump located within mining lease area	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	none	none	
4e	Number of active and alive dumps.	Nil	One Inactive old dump	
4f	Number of dead dumps.	_____	one	
4g	Number of dumps established.	_____	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	One retaining wall provided
4i	Length of Retaining wall or garland drain all along dumps	NIL	500 Meters
4j	Number of settling ponds	None	None
4k	Specific comments of inspecting officer on waste dump management	No generation of waste, hence no waste dump management proposal are given	Nil , However One old inactive dump is there within the lease area

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.	NIL	NIL	
5b	Area under backfilling of mined out area	N.A.	N.A.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	N.A.	N.A.	
5d	Total area fully reclaimed and rehabilitated	N.A.	N.A.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	There is no area matured for reclamation hence no back filling.	

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).	Yes	The annual report under rule 26(2) submitted by lessee.
6b	Area available for rehabilitation (ha) .	Nil	Nil
6d	No. of saplings planted during the year	1280	1330
6e	Cumulative no .of plants	Nil	15330
6f	Any other method of rehabilitation	Nil	Nil
6g	Cost incurred on watch and care during the year	_____	It was reported that the cost incurred for watch and ward is Rs.5,00,000/- per year.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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 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.	It was proposed to carry out environmental monitoring in core and buffer zone.	Quarterly monitoring of environmental parameters in core and buffer zone being carried out regulalry.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposals.	No grade wise sorting, Entire ROM is being consumed in the cement plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	N.A.	N.A.	
7c	Different grade of mineral sorted out at mines.	N.A.	N.A.	

7d	Any beneficiation process at mines	N.A.	N.A.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	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)	None	None	
8b	Concurrent use or storage of topsoil	N.A.	N.A.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	N.A.	N.A.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Using bed for the plantation with in 7.5 mtrs along the lease area.	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N.A.	N.A.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No of sapplings planted duringthe year - 1280 to improve the aesthetic beauty	1330 sapplings planted during the year to improve the aesthetic beautyNo. of plants	

8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	Water sorinklers arranged along the haul roads, dry fog system in crusher dump hopper and blasting muck pile wetting.	Water sprinklers arranged along the haul roads, dry fog system in crusher hopper and blasting muck pile wetting with water tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	Plantation is being done to increase aesthetic beauty in the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual returns are to be submitted in time.	Al the Monthly and Annual returns are being submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	K Harshath, B.E. (Mining) S.Srinivasa Reddy, Geologist J Rama Krishna, Mines manager	Above are employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-21.46 ha Dump - 1.40 Roads, buildings etc., 11.32 & Green belt development 21.10 ha	Pit-21.46 ha Dump - 1.40 Roads, buildings etc., 11.32 & Green belt development 21.10 ha	
9d	Scrutiny of Annual return on afforestation	No of plants 1330	No of plants 1330	
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	39038 t	39038 t
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive consumption, Ex-mine price & Cost of Production is Rs. 180/-	Captive consumption, Ex-mine price & Cost of Production is Rs. 180/-
9h	Scrutiny of Annual return on fixed assets	Rs. 1504091034/-	As reported by lessee
9k	Scrutiny of Annual return on mining machineries	SHOVEL (2.5 CUM)- 2 No., DUMPER (35 TONNE)-1, TRUCK (30 TONNE)-5 no., TRUCK (20 TONNE)-5 Nos, AIR COMPRESSOR (450CUM/MN)- 1 No., BLAST HOST DRILL (115 MM)-1 No., DOZER (324 HP) - 1 No. ROAD ROLLER-1 No, WATER TANKER (12000 LITRE)- 1 No., EXPLOSIVE VAN (3.24 TONNE)- 1 No.	HEMM as reported in AR are found deployed

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 :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines