

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

**MCDR inspection 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 : Sri J Ramakrishna-Mines Manager
Official with
Designation
- (iv) Date of Inspection : 19-NOV-21
- (v) Prev.inspection date : 30-JAN-21

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-OCT-10
- (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-APR-40
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-NOV-16
 Termination date

Geologist

Name : B MAHESWARA,Full Time
 Qualification :
 Appointment/ : 22-SEP-14
 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	31-AUG-16
	:	MP review under 17(1) MCR 2016	13-MAR-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 NRDCS, Hyderabad and Rs. 9,60,000/- 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	207.275 Million Tonnes	206.721 Million Tonnes	As per approved RMP dated 13.03.2020-Date of reserve/resources estimation is 30.09.2019 and the approved reserve is 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 separate benches are proposed for topsoil. Only benches in Mineral are proposed.	No separate bench of Top soil and Ore bench is maintained separately	
2c	Stripping ratio or ore to OB ratio	01:00.3	Nil	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3		Nil	54,664 m3 interburden (intercalated waste) in 2019-20
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 of 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	2020-21 : 14,71,960 tons	2020-231 : 11,85,825 tons	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	97.5%	100%. Total ROM generated is being utilised in captive cement plant of the lessee company	

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.
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-5m, depth of hole- 8.8m,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 5 Meters and depth of drill hole is 8.8 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 2.5 m3 capacity -3 Nos,Dumper of 30T capacity -1 No., Tipper -8nos. each of 19m3, 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	29.53 Ha.	24.999 Ha.
3n	Ore to OB ratio for the pit/mine during the year.		Nil
3o	Total area put in use under different heads at the end of year	57.9 Ha	27.94 Ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 1752845 Tonnes 2017-18 - 1758191 Tonnes 2018-19 - 1753443 Tonnes 2019-20 - 3767920 Tonnes 2020-21 - 1471960 Tonnes	2016-17 - 1055205 Tonnes 2017-18 - 943515 Tonnes 2018-19 - 1202100 Tonnes 2019-20 - 1114690 Tonnes 2020-21 - 1185825 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, 20 T dumpers with 115 mm dia drilling machines, Dozer etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	Top soil is being spreaded along 7.5m safety zone barrier for plantation.
4b	Location of topsoil, OB and mineral reject dumps	Top soil & IW to be spreaded in 7.5m safety barrier zone.	Only top soil spreaded in 7.5m safety barrier zone for plantation.	
4c	Number of dumps within lease area and outside of lease area	2020-21 : No proposal	Only one old dead dump located within mining lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	2020-21 : No proposal	Nil	
4f	Number of dead dumps.	2020-21 : No proposals	One Inactive old dump	
4g	Number of dumps established.	2020-21 : No proposals for the year	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal approved for 2019-20.	Garaland drain maintained.	
4i	Length of Retaining wall or garland drain all along dumps		500 mts	
4j	Number of settling ponds	No proposal in 2020-21.	N.A.	
4k	Specific comments of inspecting officer on waste dump management			There is no active waste dump. However there is one old fully stabilised dump is observed.

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	No such proposal in 2020-21.	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)	To be spreaded in 7.5m safety barrier zone for plantation purpose.	Top soil spreaded in 7.5m safety zone for plantation purpose.	
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.

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 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 0.18 Ha	Area 0.226 Ha.	
6d	No. of saplings planted during the year	No. of plants - 440	No. of plants - 445	

6e	Cumulative no .of plants	No such proposal for worked out benches in 2020-21.	Done	
6f	Any other method of rehabilitation	No such proposal for worked out benches in 2021-21.	Nil	
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.	No such proposal in 2020-21.	Nil	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2020-21: No proposal	-	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal in 2020-21.	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal in 2020-21.	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. Ambient Air Quality-5 core zone locations, 6 buffer zone locations, Water Quality-1 core(sump water), buffer-2m, Noise Level-5 core, 6 buffer	
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	Entire ROM produced to be dispatched to use for captive use in cement plant	No grade wise sorting, total ROM ia being utilized.	
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 before dispatch to cement plant
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)	Yes 8760.3 m3 of separate removal and utilisation of top soil proposed.	8984 m3 removed and utilised for plantation along with lease boundary	
8b	Concurrent use or storage of topsoil	To be utilised for planation	Utilised for plantation all along the 7.5 m safety barrier zone of the ML.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	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 - 400 Area 0.18 Ha	No. of plants - 445 Area (0.226 Ha.)	
8g	Survival rate	Not mentioned in plan	about 75%	
8h	Water sprinkling on roads to control airborne dust	Water sprinklers arranged along the haul roads, dry fog system in crusher dump hopper and blasting muk pile wetting.	Water sprinklers arranged along the haul roads, dry fog system in crusher hopper and blasting muk pile wetting with water tanker and plantation works etc.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being 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 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, BE(Mining) S.Srinivasa Reddy, Geologist	K.Harshath, BE(Mining) S.Srinivasa Reddy, Geologist	Geologist not employed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-27.94 Ha. Dump - 1.40, Roads, buildings etc. 11.330 Ha	Pit-27.94 Ha. Dump - 1.40, Roads, buildings etc. 11.330 Ha	
9d	Scrutiny of Annual return on afforestation	No. of plants 400 Area (0.18 Ha.)	No. of plants 44 Area (0.22 Ha.)	
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	47,553 Tonnes Graded Ore	47,553 Tonnes Graded Ore	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	x-mine price & Cost of Production is - Rs.174.36/-	Ex-mine price & Cost of Production is - Rs.174.36/-	
9h	Scrutiny of Annual return on fixed assets	Rs.1642478918/ -	Rs.1642478918/-	

9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC): 2.500 CUM, DUMPER : 35.000 TONNE, TIPPER : 19.000 CUM. AIR COMPRESSOR: 450.000 CUM/MN, ROCK DRILL (NON- ELEC.): 115.000 MM, DOZER : 324.000 HP, EXPLOSIVE VAN : 3.240 TONNE, WATER TANKER : 12000.000 LITRE	SHOVEL (HYDRAULIC): 2.500 CUM, DUMPER : 35.000 TONNE, TIPPER : 19.000 CUM, AIR COMPRESSOR: 450.000 CUM/MN, ROCK DRILL (NON- ELEC.): 115.000 MM, DOZER : 324.000 HP, EXPLOSIVE VAN : 3.240 TONNE WATER TANKER : 12000.000 LITRE.
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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