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

# MCDR inspection REPORT

# Hyderabad regional office

	Mine f	file No : AP/GNR/LST-6	1/I	HYD Mine code : 38APR07052
	(i)	Name of the Inspecting Officer and ID No.	:	MQ01 ) S K MUDULI
	(ii)	Designation	:	Junior Mining Geologist
	(iii)	Accompaning mine Official with Designation	:	Sri J Ramakrishna-Mines Manager
	(iv)	Date of Inspection	:	30/01/2021
	(v)	Prev.inspection date	:	07/02/2019
		PAR	т-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	TANGEDU(346.32 HA)
	(b)	Registration NO.	:	IBM/5580/2011
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone	: : : : : : : : : : :	A Mechanised Opencast ANDHRA PRADESH GUNTUR TANGEDA DACHEPALLI TANGEDA 522414 08649-273819 bhavyacementworks@gmail.cor 08649-273900
	(f)	Police Station	:	DACHEPALLY
	(g)	First opening date	:	01/10/2010
	(h)	Weekly day of rest	:	SUN
2.		ess for espondance	:	Plot No.1, Bhavya Spoorti Bhavan, Jubilee Hills, Film nagar Hyderabad-500 033
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	APR3190 346.32 30 28/04/2040
4.	Miner	ral 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	:	5	
				Tangeda (V), Dachepalli(M) Guntur dt. GUNTUR ANDHRA	
				PRADESH	
				Phone:	
				FAX :	
		Mining Enginee	r		
		Name	:	K HARSHATH,Full Time	
		Qualification	:	B TECH MINING	
		Appointment/		02/11/2016	
		Termination da	te		
		Geologist			
		Name	:	B MAHESWARA,Full Time	
		Qualification	:		
		Appointment/ Termination da		22/09/2014	
б.	Date	of approval of	Mini	ng : Fresh under rule 22 MCR1960	23/02/2010
••		Scheme of Minin		MP modif under 17(3) MCR 2016	31/08/2016
				MP review under 17(1) MCR 2016	13/03/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2019-20 -14 nos core bore hole	2019-2016 Core boreholes for 640m	2020-21 - No exploration proposal.
1b	Exploration over lease area for geological axis 1 or 2	43.69 На.	43.69 На.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s NRDCS Hyderabad 500029	M/s NRDCS, Hyderabad Rs. 9,60,000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire lease area has been explored in Gl scale		
le	Balance reserve as on 01/04/20		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.
lf	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.Mineralisat ion is still continuing after 40m depth.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	-	to carry out development in the North and	Duirng the inspections it was observed that development is being carried out as per approved proposals.	

2Ъ	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 bench is maintained separately
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	54,664 m3 interburden (intercalated waste) 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 systamatically 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.		
3b	Quantity of ROM mineral production proposed	37,67,920 Tonnes : 2019- 20	11,14,690 tonnes in 2019-20.	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		No MR generation assessed and no proposal in 2019-20.	NIL	

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	NA
3f	Quantity of sub grade mineral generation.	No SG generation assessed and 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 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 2019-20.	NIL
3j	Provision of drilling and blasting in mineral benches	8.8m,Booster- 83mm,Slurry	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.
31	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 На.	24.999 На.	
3n	Ore to OB ratio for the pit/mine during the year.		Nil	
30	Total area put in use under different heads at the end of year	57.9 ha	51.169 ha	
3р	Production of ROM mineral during the last five year period as applicable	2015-16-4.0 Mill.tonnes 2016- 17=1.75Mill.to nnes 2017-18 = 1.758 Mill.tonnes 2018-19 = 1.753 Mill.tonnes 2019- 20=3.767Mill.t onnes	2015-16 = 0.97 Mill.tonnes 2016-17=1.05 Mill.tonnes 2017-18 = 0.943 Mill.tonnes 2018-19 = 1.202 Mill.tonnes 2019-1.11469 Mill.tonnes	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.		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
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	to be spreaded	Only top soil spreaded in 7.5m safety barrier zone for plantation.	
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)	Beyond UPL	Beyond UPL.
4e	Number of active and alive dumps.	Nil	One Inactive old dump
4f	Number of dead dumps.		one
4g	Number of dumps established.		One.
4h	Whether Retaining wall or garland drain all along dumps are there.	approved for	Retaining wall of 500m length provided earlier.
4i	Length of Retaining wall or garland drain all along dumps	No proposal in 2019-20.	Nil
4j	Number of settling ponds	None	None
4k	Specific comments of inspecting officer on waste dump management		There is no waste dump.However there is one old sub grade 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.	No such proposal in 2019-20.	Mineral is still to be mined upto UPL & is still to be exhausted.	
5b	Area under backfilling of mined out area	proposal in	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)	in 7.5m safety	Top soil spreaded in 7.5m safety zone for plantation purpose.	
5d	Total area fully reclaimed and rehabilitated	No such proposal in 2019-20.	NIL	

of inspecting extracted upto UPL.No	
officers on portion of the lease	
backfilling and area is matured for back	
reclamation etc. filling and reclamation.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	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 01.06.2020.	
6b	Area available for rehabilitation (ha) .	No such proposal for worked out benches in 2019-20.	Nil	
6с	afforestation done (ha).	No such proposal for worked out benches in 2019-20.	Nil	
6d	No. of saplings planted during the year	No such proposal for worked out benches in 2019-20.	Nil	
бе	Cumulative no .of plants	No such proposal for worked out benches in 2019-20.	Nil	
6f	Any other method of rehabilitation	No such proposal for worked out benches in 2019-20.	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 2019-20.	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 2019-20.	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No such proposal in 2019-20.	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal in 2019-20.	Nil	
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal in 2019-20.	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1280 in 3.1 Ha.	1310 in 3.15 ha. (7.5m safety barrier zone of ML).It was reported that in 2019-20 the cost incurred for watch and ward is Rs 372300.00.	445 in 0.22 ha. during 2020-21 (Up to 30/1/2021) against 400mm in 0.18 ha. (Buffer zone of magazine)
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal in 2019-20.	Nil	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal in 2019-20.	Nil	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental montoring is to be done regularly.	Quarterly environmental montoring is being Done regularly. Ambient Air Quality-5 core zone locations, 6 buffer zone	

бq	of inspecting officers on PMCP	environmental monitoring in core and	5
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# Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal in 2019-20.	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.	Not Applicable(NA)	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)	removal and utilisation of	Done accordingly.830 tonnes of top soil generated in 2019-20 and utilised for GBD.	6820 tonnes of top soil generated upto 31.12.2020 (During 2020-21)
8b	Concurrent use or storage of topsoil		Temporarily stacked and 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)	N.A.	N.A.
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)	Ν.Α.	N.A.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No of sapplings planted duringthe year - 1280 in 3.10 Ha to improve the aesthetic beauty	1310 sapplings planted in 3.15 Ha during the year 2019-20 to improve the aesthetic beauty.
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	sprinklers arranged along the haul	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.	Roads, buildings etc., 11.33 &	Pit-24.999 ha Dump - 1.40 Roads, buildings etc., 11.32 & Green belt development 13.7 ha
9d	Scrutiny of Annual return on afforestation	No of plants 1310	No of plants 1310
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	56728 tonnes Graded Ore	56728 toones graded ore
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price & Cost of Production is Rs. 180/-	Ex-mine price & Cost of Production is Rs. 180/-
9h	Scrutiny of Annual return on fixed assets	Rs. 150,40,91,034/ -	As reported by lessee

9k		HEMM as reported in AR are found deployed
	AIR COMPRESSOR (450CUM/MN)- 1 No., BLAST HOST DRILL (115 MM)-1 No., DOZER ( 324 HP) - 1 No. ROAD ROLLER- 1No, WATER TANKER (12000 LITRE)- 1 No., EXPLOSIVE VAN (3.24 TONNE)- 1 No.	

Details of violat violation pointed		luring curren	nt	inspection and	compliance position of
Violation observed				Show c	ouse position
Rule NO.	Issued on	Compliance	on	Rule NO.	Issued on Compliance on

### Date :

### (S K MUDULI)

Indian Bureau of Mines