

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/NLG/LST-22/HYD

Mine code : 38APR14021

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Tatha Reddy,S.Srinivasa
Official with
Designation
- (iv) Date of Inspection : 12/02/2019
- (v) Prev.inspection date : 13/03/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GREY GOLD**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : **TELANGANA**
District : **NALGONDA**
Village : **MATTAMPALLI**
Taluka : **HUZUR NAGAR**
Post office : **MATTAMPALLI**
Pin Code : **508225**
FAX No. :
E-mail :
Phone : **0868367060,0868367061**
- (f) Police Station : **MATTAMPALLY**
- (g) First opening date : **22/06/1994**
- (h) Weekly day of rest : **SUN**
2. Address for : **MATTAMPALLY VILLAGE & P.O**
correspondance : **NALGONDA DISTRICT**
3. (a) Lease Number : **APR1557**
- (b) Lease area : **121.45**
- (c) Period of lease : **20**
- (d) Date of Expiry : **25/06/2025**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : M/S GREY GOLD CEMENTS
 H.NO.6-3-655/6/B 2ND FLOOR
 SOMAJI GUDA HYDERABAD
 TELANGANA
 Phone:339666 ,3396663 ,3396335
 FAX :

Owner : S.ARAVIND REDDY
 6/3/6556/B 2ND FLOOR
 SOMAGIGUDA NALGONDA
 TELANGANA
 Phone: 3396663,3392085
 FAX :

Agent : B ANWAR BASHA
 GREY GOLD CEMENTS
 MATTAMPALLI NALGONDA DIST.
 NALGONDA TELANGANA
 Phone:
 FAX :

Manager

Name : G.TATA REDDY
 Qualification : DIPLOMA IN MINING ENGINEER
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	22/04/2003
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	23/12/2004
	:	Mining Scheme rule 12 MCDR1988	28/06/2010
	:	MP modif under MCR 1960	27/08/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2017-18 a total of 5 nos of core bore holes were proposed.	5 nos core bore holes drilled in 2017-18.	Work done as per proposal. Core and bore hole records are maintained. Sampling and analysis has been completed.
1b	Exploration over lease area for geological axis 1 or 2	10.5 Ha during 2017-18	10.5 Ha has been explored.	70 Ha under G1 and G2 scale of exploration by end of 2017-18 and balance 51.45 Ha is to be explored under G1 and G2 scale of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	5 core bore holes proposed for drilling in 2017-18	In 2017-18 a total of 5 nos of core bore holes drilled against the proposal of 5 nos of bore holes. Rock Engineering Core Drillers is the exploratory agency and Rs.2,32,500/- cost towards exploration.	No exploration agency and expenditure proposed.
1d	Balance area to be explored to bring Geological axis in 1 or 2	51.45 Ha	51.45 Ha	
1e	Balance reserve as on 01/04/20	1.822 million tonnes reserves in 111 category	1.8575 million tonnes in 111 category Remaining resources - 11.086 million tonnes	Grade of the Limestone CaO% ranges between 45 to 48% with SiO ₂ % ranging between 8 to 12%.

1f	General remarks of inspecting officers on geology, exploration etc	The strike of the Limestone varies between EW to NNE-SSW with dips 5 to 20 degrees. The different type of Limestone found in this area are Light and dark Grey Limestone, Variegated Limestone. The deposit does not have OB and sub grade mineral. All the Cores obtained from the core bore holes and their records are maintained. Sampling and analysis have been completed.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 1853954 to N 1854054, E380100 to E380344	Location of development is within the proposed area co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches only in mineral have been proposed.	Benches in mineral only developed.	Separate benches in top soil and OB have not been proposed as the thickness of top soil zone is maximum of 1m below ground level and no over burden is present in the proposed area of mining.
2c	Stripping ratio or ore to OB ratio	1:0.02	1:0	Intercalated waste is not separable and there is no over burden within the mining lease.

2d	Quantity of topsoil generation in m3	Nil	Nil	The area proposed for mining is already broken up and within the mining pit area. Further Mining has been proposed in the second bench.
2e	Quantity of overburden generation in m3	OB-Nil. Interstitial clay-1157 tonnes	Nil	Interstitial/intercalated clay is not separable from ROM.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There are two pits out of which in one pit worked by mechanised method in which proposal for mining has been submitted and in the other pit which was earlier worked by manual has not been proposed for mining. Two benches have been developed and the 2nd bench bottom level is 73mRL.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One Pit having 2 benches.	Bench height is of 5m. Bottom RL of the bench is 73m.
3b	Quantity of ROM mineral production proposed	113940 tonnes	89700 tonnes	78.72 % achieved due to low demand of cement and slow market condition. However the average TC of the ROM mined is 85%.
3c	Recovery of sailable/usable mineral from ROM production	99.5%	100%	
3d	Quantity of mineral reject generation	Not proposed	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	As per the exploratory data there is no sub grade mineral hence sub grade mineral generation have not been proposed.	Nil	
3g	Grade of sub grade mineral generation	As per the exploratory data there is no sub grade mineral hence sub grade mineral generation have not been proposed.	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Segregation is not proposed.	Interstitial clay is not separable from ROM and the entire ROM was utilised.	Sub grade mineral is not available within the lease and interstitial clay is not separable from ROM.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil	This deposit does not warrant any beneficiation test.
3j	Provision of drilling and blasting in mineral benches	100mm dia Wagon Drill with Compressor (450 cfm) Blasting-100 mm dia hole, Spacing-2.5m, Burden-2m, Bench Height-5m Explosives-Slurry and ANFO in ratio 1:4	Rock Drill (Non Electric)-100mm dia, Air Compressor (450cfm) Blasting-100 mm dia hole, Spacing-2.5m, Burden-2m, Bench Height-5m Explosives-Slurry and ANFO in ratio 1:4	Provided as proposed.

3k	Provision of mining machineries in mineral benches	Excavator(0.65 cum bucket capacity)-1no, Tippers(10 tonners)-3 nos	Tata Hitachi Excavator-0.65 cum bucket capacity-1no, Dumper(10 tonnes) -3 nos	Provided as proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m bench height in the mineral.No bench has been proposed in OB as there is no OB.	Tata Hitachi EX-110 can have reach upto a height of 6m.	There is no OB and the height of mineral bench is suitable for Mechanised operation.
3m	Total area covered under excavation/pits	19.13 Ha	18.23 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.02	1:0	The interstitial clay is not separable from ROM and there is no OB in the area proposed for mining.
3o	Total area put in use under different heads at the end of year	22.60 Ha	22.60 Ha	
3p	Production of ROM mineral during the last five year period as applicable	Total- 894984.000 Tonnes 2013-14=1,03,000 T, 2014-15=4,50,000 T, 2015-16=1,13,966 T, 2016-17-114078 T, 2017-18-113940 T	Total- 504700.000 Tonnes 2013-14=95,500 T, 2014-15=96,700 T, 2015-16=1,13,900 T, 2016-17-108900 T, 2017-18-89700 T	
3q	General remarks of inspecting officers on method of mining etc.			Opencast mechanised method of mining by forming systematic benches are being practiced.

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)	Not Proposed	Nil	Mining has been proposed in 2nd bench where there will be no generation of top soil, there is no OB in the area proposed for mining. As per the exploratory data there is no mineral rejects.
4b	Location of topsoil, OB and mineral reject dumps	Dumping not proposed	Nil	Top soil thickness is of max 1m, there is no OB in the area proposed for mining. As per the exploratory data there is no mineral rejects.
4c	Number of dumps within lease area and outside of lease area	Not Proposed	Nil	Top soil thickness is of max 1m, there is no OB in the area proposed for mining. As per the exploratory data there is no mineral rejects. However there is no outside dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	No waste dumping has been done.	There is no OB in the proposed area for mining and also there is no waste generation during mining.
4e	Number of active and alive dumps.	No proposal	No waste dumping activity is found within the mining lease.	There is no OB in the proposed area for mining and also there is no waste generation during mining
4f	Number of dead dumps.	No proposal	Nil	There is no OB in the proposed area for mining and also there is no waste generation
4g	Number of dumps established.	Not Proposed	No waste dump found to exist within the lease.	There is no OB in the proposed area for mining and also there is no waste generation

4h	Whether Retaining wall or garland drain all along dumps are there.	As no waste dump exists within the mining lease retaining wall and garland drain has not been proposed.	No waste dump exists within the mining lease.
4i	Length of Retaining wall or garland drain all along dumps	As no waste dump exists within the mining lease retaining wall and garland drain has not been proposed.	No retaining wall and garland drain found to exist.
4j	Number of settling ponds	As no waste dump exists within the mining lease settling ponds has not been proposed.	Nil
4k	Specific comments of inspecting officer on waste dump management		No waste dump exists within the lease area and also there is no waste generation during mining.

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 proposals have been made.	No part of the lease area is matured for back filling.	No part of the mining lease area has been accessed with complete exhaustion of mineral as the mineral is continuing at depth and hence no part of the mining lease is matured for back filling.

5b	Area under backfilling of mined out area	No such proposals have been made as there is no scope for complete exhaustion of minerals based on the mining proposals.	Nil	The mineral is continuing at depth and no part of the mining lease matured for back filling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposals have been made.	Nil	No part of the mining lease area has been accessed with complete exhaustion of mineral.
5d	Total area fully reclaimed and rehabilitated	No such proposals have been made.	Nil	The mineral is continuing at depth and no part of the mining lease matured for back filling.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The mineral is still continuing at depth and the pit is not matured for back filling.

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).	To submit as per rule	Yes submitted on 15.06.2018.	Information has been submitted in respect of no of plantation carried out and environmental monitoring.
6b	Area available for rehabilitation (ha) .	No such proposals have been made.	NIL	No part of the mining lease area has been accessed with complete exhaustion of mineral as the mineral is continuing at depth and hence no area is proposed for rehabilitation.
6c	afforestation done (ha).	500 nos in 0.1875 Ha area	1800 saplings in 0.75 Ha	Drip system of growth of plantation has been provided.

6d	No. of saplings planted during the year	500 nos	1800 nos	Plantation has been done in western safety zone. Survival rate around 80%.
6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	Plantation and Environmental Monitoring has been proposed but no proposal has been made in respect of cost to be incurred on watch and care	Rs 4,50,000.00	Plantation and Environmental monitoring carried out
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not proposed	Nil	No part of the ML area is matured for reclamation and rehabilitation.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed as the entire area is mineralised.	Nil	Plantation has been done in western safety zone.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical environmental monitoring.	Carrying out periodical environmental monitoring.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation Survival rate is around 80% for the year 2017-18. Lessee has provided drip system for survival and growth of plants.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	whatever is proposed to be produced i.e 113940 tonnes.	88500 tonnes	77.67 % achieved due to slow market condition.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Grade wise sorting not proposed	Nil	As per exploratory data there is no Sub Grade Mineral and Mineral Reject.
7c	Different grade of mineral sorted out at mines.	Grade wise sorting not proposed	NA.	However the average Total Carbonate of the ROM mined is 85%.
7d	Any beneficiation process at mines	Not proposed.	Nil	The deposit does not warrant beneficiation.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	0	0	The entire ROM is consumed in the plant.The deposit does not warrant any type of beneficiation.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal has been submitted for the year 2017-18.	Nil in 2017-18	Mining proposal has been given in the second bench in 2017-18.Earlier whenever the top soil was produced had been utilised for Green belt development.
8b	Concurrent use or storage of topsoil	No top soil generated in 2017-18.	Nil.	Mining proposal has been given in the 2nd bench in the year 2017-18.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	Nil	Mining has been proposed in 2nd bench where there will be no generation of top soil, there is no OB in the area proposed for mining. As per the exploratory data there is no mineral rejects. No fines dump exist within the mining lease.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed.	Nil	There is no overburden in the area proposed for mining and also no part of the mining lease area has been assessed of completely exhaustion of mineral.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Nil.	No part of the mining lease area is completely exhausted of mineral and there is no waste dumps within the mining lease.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	From 2015-16 to 2017-18 it was proposed to plant 1500 nos of plants	From 2010-11 to 2014-15 a total of 4000 plants had been planted in 1.60 Ha. During 2015-16, 2016-17 and 2017-18 a total of 550nos, 1505 nos and 1800 nos of plants were planted respectively.	Bush type vegetation is found within the lease area. Mining Lease area is surrounded by agricultural field.
8g	Survival rate	80%	80%	Drip system water spraying has been provided for survival and growth of plants.
8h	Water sprinkling on roads to control airborne dust	Yes	Yes. Provided 5000 litre water tanker with sprinkler.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	0	0	Bush type vegetation found to exists within the Lease area and agricultural field exists surrounding the lease area. Aesthetic beauty in and around the mines is not disturbed.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted	Submitting regularly in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- K.H.Joseph Kumar, Geologist- S.Srinivasa Reddy, Manager- E.Upendra Chary	Mining Engineer- K.H.Joseph Kumar, Geologist-S.Srinivasa Reddy, Manager-E.Upendra Chary	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C Working- 18.23 Ha Roads & Infrastructure -0.92 Ha Other(Plantation)-3.45 Ha	O/C Working-18.23 Ha Roads & Infrastructure- 0.92 Ha Other(Plantation)-3.45 Ha	
9d	Scrutiny of Annual return on afforestation	1800 nos WML	1800 nos WML in 0.75 Ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject generation- Nil	Mineral Reject generation- Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock- Nil	ROM Stock- Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost per tonne-Rs 261.00, Ex-mine Price-Rs 261.00	Cost per tonne-Rs 261.00, Ex-mine Price-Rs 261.00	

9h	Scrutiny of Annual return on fixed assets	Rs 76,52,000.00	Rs 76,52,000.00 (Mining Machinery Cost)
9k	Scrutiny of Annual return on mining machineries	Rock Drill (Non Electric)-100mm dia, Air Compressor (450 cfm/minute) Dumper-10 tonners-3 nos, Excavator-0.65 m3-1 nos	Rock Drill (Non Electric)-100mm dia, Air Compressor (450 cfm/minute) Dumper-10 tonners-3 nos, Excavator-0.65 m3-1 nos

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