

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KSN/LST-26/HYD

Mine code : 38APR10027

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : B.Anil Kumar, Sr.DGM (Mines)
Official with
Designation
- (iv) Date of Inspection : 31/08/2017
- (v) Prev.inspection date : 03/03/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MUKTYALA (368.35 HA)**
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KRISHNA
- Village : MUKTYALA
- Taluka : JAGGAYYAPETA
- Post office : MUKTYALA
- Pin Code : 521175
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 10/08/2007
- (h) **Weekly day of rest** : SUN
2. **Address for** : VILL::MUKTHLYA
correspondance TALUK:JAGGAIAH PET
DIST:KRISHNA
3. (a) **Lease Number** : APR1734
- (b) **Lease area** : 368.4
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 20/02/2032
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S K.C.P.LTD
 MACHERLA CEMENT UNIT
 MACHERLA GUNTUR ANDHRA
 PRADESH
 Phone:
 FAX :

Owner : DR.V.L.DUTT, C&MD
 2, P.V. CHERIAN CRESCENT,
 CHENNAI, TAMIL NADU.
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Agent : SRI G.V.K.PRASAD
 PROJECT
 OFFICE, RAMAKRISHNAPURAM,
 UNIT-II, THE K.C.P. LTD,
 MUKTHYLA, KRISHNA DIST.
 521175 GUNTUR ANDHRA
 PRADESH
 Phone: 9491296003
 FAX :

Manager

Name : B.ANIL KUMAR
 Qualification : B.E.(MINING) DATE OF APPOINTMENT ON 10
 Appointment/ : 10/08/2007
 Termination date

6. Date of approval of Mining	:	PMCP under 23B(2) for Existing	06/07/2011
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	03/01/2012
		Mining Scheme rule 12 MCDR1988	14/12/2012
		MP modif under 17(3) MCR 2016	29/12/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	35 Core Bore Holes	None	35 Core bore holes completed during the year 2017-18
1b	Exploration over lease area for geological axis 1 or 2	G1 area- 104.40 ha G2 area- 143.98 ha G4 area- 119.97 ha	Total lease area has been explored under G1.	Total 67 nos of core bore holes are proposed in the year 2017-18 to convert the total lease area in to G1 Category and the same has been carried out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	NRDCS, Hyderabad Drilled CBH-10 Nos Depth of drilling-410 m Expenditure- Rs.6,52,310/-	Balance CBH have been drilled during the year 2017-18.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 area- 103.103 ha G2 area- 12.12 ha G3 area- 90.242 ha G4 area- 162.885 ha	G1 area-104.40 ha G2 area-143.98 ha G3 area-119.97 ha	Total area has been explored during the year 2017-18
1e	Balance reserve as on 01/04/20	Reserves- 174.2 million tonnes Resources- 24.63 million tonnes	Reserves- 174.2 million tonnes Resources-24.63 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	Total area has been explored under G1 during the year 2017-18

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	East, West & SE directions in NW block	East, West directions in NW block	_____
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB benches- NIL Mineral Benches-4 Nos	OB benches- NIL Mineral Benches-4 Nos	Lease area is completely covered with out crops.

2c	Stripping ratio or ore to OB ratio	1: 0.01	1:0	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	NIL	NIL	Lease area is completely covered with Limestone out crops.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	Development work is going on as per the approved proposals.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	
3b	Quantity of ROM mineral production proposed	32,56,361 MT	16,50,000 MT	Less production due to non erection of 2nd line plant.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Not Applicable	Not Applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Applicable	Not Applicable	

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	Wet drilling & controlled blasting with explosive + ANFO	Wet drilling & controlled blasting with explosive + ANFO	
3k	Provision of mining machineries in mineral benches	Excavator and Tippers	Excavator and Tippers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 7m ht	Yes, 7m ht	Only Mineral benches, no overburden.
3m	Total area covered under excavation/pits	39.491 ha	31.14 ha	The difference is due to less production.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.01	1: 0	
3o	Total area put in use under different heads at the end of year	46.061 ha	35.64 ha	Deviation is due to less production.
3p	Production of ROM mineral during the last five year period as applicable	2012-13-- 1983621 t, 2013-14-- 1995961 t, 2014-15-- 45,00,779 t, 2015-16-- 45,00,615 t, 2016-17-- 32,56,361 t	2012-13-- 1505000 t, 2013-14--1250000 t, 2014-15--1310000 t, 2015-16--1320000t, 2016-17--1650000 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Open cast mechanised method of Mining is 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)	One dump proposed in NW block	NIL	No top soil, OB waste is being generated.
4b	Location of topsoil, OB and mineral reject dumps	N425-N510 W 2095-W 2220	NIL	No top soil, OB waste is being generated.
4c	Number of dumps within lease area and outside of lease area	One dump proposed within ML	NIL	No top soil, OB waste is being generated.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	NIL	
4e	Number of active and alive dumps.	One	NIL	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain	Not Applicable since there is no dump	
4i	Length of Retaining wall or garland drain all along dumps	400 m length of garland drain around the dump	Not applicable	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	There is no top soil, OB and waste. Hence there is no waste dump.

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 Proposal	NIL	Since the mineral is existing at depth, back filling does not arise at this stage.

5b	Area under backfilling of mined out area	Not Applicable	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Applicable	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Not Applicable	Not Applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	Pit not matured for 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).	No Proposals have been made	NIL	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	NIL	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Applicable	Not Applicable	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Applicable	Not Applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Applicable	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Applicable	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	375 plants Area-0.249 ha	850 plants Area-0.5 ha
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 was proposed in core and buffer zones	Quarterly Environmental Monitoring has been carried out in core and buffer zones
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	There is no proposal of grade wise sorting	The entire ROM is being fed to the crusher	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	Not Applicable	
7c	Different grade of mineral sorted out at mines.	Not Applicable	Not Applicable	
7d	Any beneficiation process at mines	Not Applicable	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Total ROM is being fed to the crusher.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	The lease area is covered with out crops hence there is no top soil.
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One dump proposed	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	375 plants	850 plants
8g	Survival rate	80%	90%
8h	Water sprinkling on roads to control airborne dust	Proposed water tanks for dust suppression.	Two numbers of water tankers with the capacities of 16 kl & 9 kl are used at our mines for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines 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 being submitted within stipulated time	Monthly and Annual Returns are being submitted within stipulated time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri. B.Anil Kumar, Mines Manger & Mining Engineer, Sri. T.Hemasundara Rao, Dy. Manager(Geology)	Sri. B.Anil Kumar, Mines Manger & Mining Engineer, Sri. T.Hemasundara Rao, Dy. Manager(Geology)	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit-31.14 ha, Reclaimed area-0, Dumps-0, Magazine-0.12 ha, Roads-0.05ha, Green belt-4.50 ha	Area under pit-31.14 ha, Reclaimed area-0, Dumps-0, Magazine-0.12 ha, Roads-0.05ha, Green belt-4.50 ha
9d	Scrutiny of Annual return on afforestation	No. of plants within ML-850 No. of Plants outside ML-600	No. of plants within ML-850 No. of Plants outside ML-600
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	30,000 MT	30,000 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	COP-Rs.468.16/- Captive consumption	COP-Rs.468.16/- Captive consumption
9h	Scrutiny of Annual return on fixed assets	Rs.37,52,96,16 8/-	Rs.37,52,96,168/-
9k	Scrutiny of Annual return on mining machineries	Excavators and Tippers	Excavators and Tippers

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 :

(Ch.Suseela)

Indian Bureau of Mines