

**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 : **M015**) **MANISH K. MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 07/03/2018
- (v) Prev.inspection date : 31/08/2017

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:JAGGAIH PET**
: **DIST:KRISHNA**
3. (a) Lease Number : **APR1734**
- (b) Lease area : **368.4**
- (c) Period of lease : **30**
- (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	None	None	-
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	66 nos Core Bore Holes are drilled in this year to convert the lease area into G1 level G1 = 348 ha G2 = 20 ha	Core drilling was completed. Chemical Analysis of samples and report preparation is under process.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposed CBH = 67 nos	NRDCS - Hyderabad Drilled CBH = 66 nos Expenditure = Rs. 42,26,915/-	Maximum area converted into G1 area.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 area = 104.40 ha G2 area = 143.98 ha G4 area = 119.97 ha	G1 area = 317.39 ha G2 area = 50.96 ha	
1e	Balance reserve as on 01/04/20	174,2 MT	172.46 MT	depletion = 1.735 MT
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	East, South & West directions in Pit - 1, between N447-N1030 & W1787-W2457	East, South & West directions in Pit - 1, between N447-N1030 & W1803-W2528	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB benches = Nil Mineral benches = 4 Nos	OB benches = Nil Mineral benches = 4 Nos	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	

2d	Quantity of topsoil generation in m3	Proposed to generate 1,000 m3 during 2017-18	Top soil was not generated during 2017-18	-
2e	Quantity of overburden generation in m3	Nil	Nil	Mine is completely covered with limestone outcrops
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			

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	16-17 = 32,56,361 T 17-18 = 20,00,250 T	16-17 = 16,50,000 T 17-18 = 17,35,379 T (upto 1/3/2018)	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA
3j	Provision of drilling and blasting in mineral benches	Wet drilling and controlled blasting with explosives + ANFO	As per proposal existing practice of deep hole drilling and blasting is contined with excel explosive + ANFO
3k	Provision of mining machineries in mineral benches	Excavator and tipper comvination	Excavator and tipper comvination
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Yes
3m	Total area covered under excavation/pits	32.14 ha	32.34 ha as on 6/3/18
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0
3o	Total area put in use under different heads at the end of year	60.96 ha	61.16 ha
3p	Production of ROM mineral during the last five year period as applicable	2013-14 = 1995961 MT 2014-15 = 4500779 MT 2015-16 = 4500615 MT 2016-17 = 3256361 MT 2017-18 = 2000250 MT	2013-14 = 1250000MT 2014-15 = 1310000 MT 2015-16 = 1320000 MT 2016-17 = 1650000 MT 2017-18 = 1735379 MT (upto 01.03.2018)
3q	General remarks of inspecting officers on method of mining 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)	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	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil
4e	Number of active and alive dumps.	Nil	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.	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil
4j	Number of settling ponds		
4k	Specific comments of inspecting officer on waste dump management	-	-

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	Since the mineral is existing at depth back filling not arise at this state	Not matured for backfilling

5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	MINE IS COMPLETELY COVERED WITH LIMESTONE OUTCROPS. GENERATED SMALL QUANTITY WAS USED FOR PLANTATION DEVELOPMENT.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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	Submitted for 2016-17	
6b	Area available for rehabilitation (ha) .	NA	Not done as area is not mature for the purpose.	
6c	afforestation done (ha).	NA	Not done as area is not mature for the purpose of rehabilitation.	
6d	No. of saplings planted during the year	NA	Not done as area is not mature for the purpose of rehabilitation.	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	---	-----	----
6g	Cost incurred on watch and care during the year	----	-----	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	----	Not done as area is not mature for the purpose of backfilling
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	---	Not done as area is not mature for the purpose of backfilling
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	-----	Not done as area is not mature for the purpose of afforestation on backfilled area
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	----	Not done as area is not mature for the purpose
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	Not applicable as there is no waste land.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	Not applicable as there is no waste land.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation		Not applicable as there is no waste land.

6p	Compliance of environmental monitoring (core zone and buffer zone)	submitted for 2016-17
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.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	1,000 CU.M PROPOSED TO BE USED FOR AFFORESTATION	TOP SOIL WAS NOT GENERATED DURING THIE YEAR	

8b	Concurrent use or storage of topsoil	Proposed for Afforestation	Not applicable as no top soil generation is anticipated.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plants = 1500 nos Area = 0.25 ha	Plants = 500 nos Area = 0.25 ha
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	Proposed water tanks for control the dust suppression	Water sprinkling system was installed and two numbers of water tankers with the capacities of 16 kl and 9 kl are used at our mines for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Though it is reported that 5050 saplings have been planted over 4.25 ha since the opening of mine. But survival rate does not seem to be high hence need to be reassessed.	

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 submitted within stipulated time		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed as per Rules	Sri. B Anil Kumar, MM&ME Sri T Hemasundara Rao, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits = 31.14 ha other- 11.25 ha.	Pit = About 32 ha	
9d	Scrutiny of Annual return on afforestation	Within ML No of plants = 500 nos Outside ML No of plants = 700 nos	500 within lease along the road to plant from gate to sector.	
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	-	16,50,000 T ROM c/b - 30000 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	359.11 Rs PMT reported		
9h	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries	---	As reported	

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
MCDR17 Rule 11(1)	05/04/2018				
MCDR17 Rule 56	05/04/2018				

Date :

(MANISH K. MAINDIRATTA)

Indian Bureau of Mines