

**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 : **M017**) **MANISH K MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri B Anil Kumar, Sh T Hemasunder Rao
Official with
Designation
- (iv) Date of Inspection : 11/12/2019
- (v) Prev.inspection date : 14/07/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MUKTYALA (368.35 HA)**
- (b) **Registration NO.** : **IBM/680/2011**
- (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. : 08654-296009
E-mail : mines.rkpuram@kcp.co.in
Phone : 08654-296006
- (f) Police Station : MUKTYALA
- (g) First opening date : 10/08/2007
- (h) Weekly day of rest : SUN
2. Address for : M/S KCP LIMITED MUKTYALA VILLAGE
correspondance : JAGGAIHPET MANDAL
KRISHNA DISTRICT
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: 4466772600
 FAX : 4466772620

Agent : V Madhusudana Reddy
 KCP Cement Muktyala
 village,Jaggayyapeta
 mandal,krishna district
 KRISHNA ANDHRA PRADESH
 Phone: 9491373671
 FAX : 08654 296009

Mining Engineer

Name : T. Hemasunder Rao,Full Time
 Qualification :
 Appointment/ : 01/03/2011
 Termination date

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	Backlog as on 1/4/2018 =NIL	Nil during 2018-19	
1b	Exploration over lease area for geological axis 1 or 2	Nil	No work done in 2018-19	Already entire lease area is covered under G1 level of exploration. However the depth wise exploration is not complete and mineral continuity is still there.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	2018-19- No proposal	2018-19- No exploration work undertaken	Exploration work completed in 2017-18
1d	Balance area to be explored to bring Geological axis in 1 or 2	----	Entire area explored upto G1 or 2 category. But depth wise mineral continuity is still there.	
1e	Balance reserve as on 01/04/20	As on 1/4/2017 Reserves- 174.2 mT Remaining resource- 24.63 mT	Depletion from 2017-18= 1.955 mT 2018-19= 2.4 mT Bal res- 169.845Mt Remaining resource-24.63 mT	
1f	General remarks of inspecting officers on geology, exploration etc	----	The depth continuity of mineralisation is established upto a depth of -53mRL in one bore hole and upto -75mRL in the eastern part of the lease.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N405-1033 W1753-2483	Broadly done in the same area.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Required to be worked separately as per rule	No top soil reportedly generated in 2018-19. However the top soil is reported to be worked separately where ever generated	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	There is No OB in the lease area.
2d	Quantity of topsoil generation in m3	2008-09= 1000 cu m	2008-09= NIL	
2e	Quantity of overburden generation in m3	No proposal	Nil	
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	1	1	
3b	Quantity of ROM mineral production proposed	2018-2019= 4502250 T	2018-19= 2400000T	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No Proposal	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Not applicable	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not Applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Segregation was done in the field, if required.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	Wet drilling and controlled blasting proposed	Drilling was carried out by EPIROC(D40) machine of 115mm having DCT Filters (dust collection system. Blasting carried by NONEL Detonators for all the benches and Powder Factor 8.11 T/KG achieved.
3k	Provision of mining machineries in mineral benches	Excavator and tipper combination proposed	Excavators backhoe (2.5 cu m-3, 1 cu m -1 nos.) tippers -12 Nos of 25 nos. Each. 6 tippers of 31 ton each.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	---	Machine suitable for 8m bench height.
3m	Total area covered under excavation/pits	35.64 hectare till 2018-19	38.8 ha. till 2018-19
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	64.71 ha till 2020-21	Till 2018-19 Under Pit= 38.8 hectare Infra , road etc= 24.570 hectare Afforestation 4.5 hectare Total =67.87 hectare

3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 4.5 mT 2015-16 - 4.5 mT 2016-17 - 3.25 mT 2017-18- 2.0 mT 2018-19- 4.5 mT	2014-15 - 1.31 mT 2015-16 - 1.32 mT 2016-17 - 1.65 mT 2017-18-1.95 mT 2018-19- 1.24 mT
3q	General remarks of inspecting officers on method of mining etc.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Area is devoid of topsoil, OB and mineral reject	no generation of dumping material in 2018-19 is reported.	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	2018-19= No MR generation	
4c	Number of dumps within lease area and outside of lease area	No proposal	No dump is there within the lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	
4e	Number of active and alive dumps.	No proposal	NIL	
4f	Number of dead dumps.	No proposal	NIL	
4g	Number of dumps established.	No proposal	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	NIL	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	NIL	

4j	Number of settling ponds	No proposal	NIL
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 for backfilling	Not done .	
5b	Area under backfilling of mined out area	No proposal	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Used for plantation	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal for backfilling	Not done .	

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 be submitted as per rule	Submitted on 10.04.2019	
6b	Area available for rehabilitation (ha) .	No proposal for worked out benches	Not done	

6c	afforestation done (ha).	No proposal for worked out benches	Not done
6d	No. of saplings planted during the year	No proposal for worked out benches	Not done
6e	Cumulative no .of plants	No proposal for worked out benches	Not done
6f	Any other method of rehabilitation	---	----
6g	Cost incurred on watch and care during the year	-----	info. not available.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal for backfilling	Not done
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for backfilling	Not done
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal for backfilling	Not done
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal for backfilling	Not done
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	---	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2018-19-1500 saplings over 0.25 hectare.	2018-19-1500 saplings over 0.25 hectare.	Plantation of 2017-18 was completed in 2018-19 and backlog of plantation for 2018-19 is completed in 2019-20.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2018-19-1500 saplings over 0.25 hectare.	2018-19-1500 saplings over 0.25 hectare.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-----	-----	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Done regularly	
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	No proposal for mineral sorting.	Entire ROM is fed to the crusher.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Only Cement grade material produced.	
7c	Different grade of mineral sorted out at mines.	No sorting proposed	Entire mineral produced is used after simultaneous blending as a cement grade material.	

7d	Any beneficiation process at mines	No proposal	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for 2018-19	Top soil not generated in 2018-19	
8b	Concurrent use or storage of topsoil	No proposal for 2018-19	Top soil not generated in 2018-19	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	No OB, waste rock, fines generated.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not Applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2018-19-1500 saplings over 0.25 hectare.	2018-19-1500 saplings over 0.25 hectare.	
8g	Survival rate	---	50% within ML	

- 8h Water sprinkling on roads to control airborne dust
- 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	M.R. Submitted up to Up to Oct 2019 A.R. Submitted up to Up to 2017-18		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-Sh B Anil Kumar Geologist- Sh T. Hemasunder Rao	Mining Engineer-Sh B Anil Kumar Geologist- Sh T. Hemasunder Rao	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit- 38.8 ha. Plant, building, road etc reported as 24.57 hectare Afforestation 4.5 hectare	Broadly as per submission	
9d	Scrutiny of Annual return on afforestation	1500 saplings reported within ML area with 50% survival.		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL reported in 2018-19	same as per record.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/B = 0 T, Prod-2400000T Desp 2400000T Closing balance = 0 T	O/B of ROM has been submitted as 0 whereas the o/b of graded ore has been submitted as 30000 T	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price submitted as Rs 318.95 PMT	Mining cost has been submitted as 212.79 PMT and depreciation cost as zero
9h	Scrutiny of Annual return on fixed assets	the machinery data has been submitted in the returns.	As reported.
9k	Scrutiny of Annual return on mining machineries		m/c deploye as proposed.

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
MCDR17	Rule 34(2)	28/01/2020	21/05/2020			
MCDR17	Rule 45(7)(a)	28/01/2020				

Date :

(MANISH K MAINDIRATTA)

Indian Bureau of Mines