

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

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

Mine code : 38APR10027

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri. Anil Kumar, Mine Manager & Sri. Hemasundar, Geol
Official with
Designation
- (iv) Date of Inspection : 15-NOV-21
- (v) Prev.inspection date :

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-AUG-07
- (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-FEB-32
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-MAR-11
 Termination date

Manager

Name : B.ANIL KUMAR
 Qualification : B.E.(MINING) DATE OF APPOINTMENT ON 10
 Appointment/ : 10-AUG-07
 Termination date

6. Date of approval of Mining	:	PMCP under 23B(2) for Existing	06-JUL-11
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	03-JAN-12
		Mining Scheme rule 12 MCDR1988	14-DEC-12
		MP modif under 17(3) MCR 2016	29-DEC-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	No exploration work undertaken However NRDCS - Hyderabad carried out CBH = 66 nos. in the year 2017-18. The cost incurred is Rs.42,26,915/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	---	Entire lease area is explored into G1 level of exploration.	
1e	Balance reserve as on 01/04/20	----	Proved Reserves as on 1/4/2021 - 165.211 million tonnes	Reserves and Reserves as re-estimated based on the exploration carried out in 2017-18 and submitted in the Review of Mining Plan.
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area is covered under G1 level of exploration. However the depth wise exploration is not complete and mineral continuity is still there. Lessee has proposed to explore the mineralised area upto full depth during the conceptual period.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed working co-ordinates: N146-N1047 & W1663-W2555 It was approved to carry out mining operations to develop the quarry on South Eastern side.	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Mineral benches proposed	Only mineral benches developed as per proposal	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	2020-21- 1000 cu.m	2020-21 - Nil	No topsoil generated during the year 2020-21.
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			No OB is generated in the proposed mining area.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2020-21 - 4500900 Tonnes 2021-22 - 4500187 Tonnes	2020-21 - 2583500 Tonnes 2021-22 - 1781162 Tonnes (upto Oct'21)	Lessee has reported that less production due to less market demand.

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.	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil
3g	Grade of sub grade mineral generation	Not Applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in the mineral benches.	During inspection it was observed that Wagon drill being used for drilling with a blast hole dia of 115 mm & depth of 9 m, spacing of 5 meters and burden of 3 meters. Blasting with ANFO & slurry explosives with NONELS as initiating system.

3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, exvators & dumpers for drilling, loading & transporting of ore to crushing plant.	During inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 7.5 meters	During inspection it was noticed that the bench height is being maintained 7.5 m and digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	56.64 Ha up to the end of plan period 2021-22	2020-21 - 47.894 Ha
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	Under pits=56.64 Ha. Infrastructure (Magazine + ANFO + Transport Office) = 1.0 Ha. Roads = 3.65 Ha. Green belt = 5.25 Ha. Harvesting Pond= 12.05 Ha. Lorry parking = 7.92. Ha.	Under pits=47.8 Ha. Magazine, ANFO,Transport Office = 1.0 Ha. Roads = 3.60 Ha. Green belt = 5.0 Ha. Infrastructure = 24.57 Ha. Harvesting Pond= 12.05 Ha. Lorry parking = 7.92. Ha. Total 71.72 Ha.
		Total 69.56 Ha.	

3p	Production of ROM mineral during the last five year period as applicable	2016-17 = 32,56,361 MT 2017-18 = 20,00,250 MT 2018-19 = 45,02,250 MT 2019-20 = 45,00,900 MT 2020-21 = 45,01,012 MT 2021-22 = 45,00,187 MT	2016-17 = 16,50,000 MT 2017-18 = 219,55,000 MT 2018-19 = 24,00,000 MT 2019-20 = 20,50,000 MT 2020-21 = 25,83,500 MT 2021-22 = 17,81,622 MT (Upto Oct'21)
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3q	General remarks of inspecting officers on method of mining etc.	Fully mechanised open cast method of mining is adopted for exploitation of ore using HEMM with Deep hole drilling and Blasting.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Nil	
4e	Number of active and alive dumps.	Not applicable	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.	Not applicable	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			There is no waste material generated during the year in the lease, hence dump management is not applicable.

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	
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)	No Proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not mined out upto its ultimate pit limit to start backfilling.

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 for the year 2020-21.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2020-21 - 0.25 Ha	2020-21 - 0.25 Ha	
6d	No. of saplings planted during the year	2020-21 - 1500 Nos. 2021-22 - 1500 No.s	2020-21 - 2500 Nos. (Within lease) & 1000 Nos. (Outisde lease) 2021-22 - 2500 Nos. (Within lease)	
6e	Cumulative no .of plants	No proposal	10850 Nos. of saplings upto 2020-21	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2020-21-1500 saplings over 0.25 hectare.	2020-21-1500 saplings over 0.25 hectare.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2020-21-1500 saplings over 0.25 hectare.	2020-21-1500 saplings over 0.25 hectare.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2020-21 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	The entire ROM is being fed to the crusher.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed to utilised for afforestation	No topsoil generated during the year 2020-21	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
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)	2500 Nos. saplings over 0.25 Ha in the year 2020-21.	2500 Nos. saplings over 0.25 Ha in the year 2020-21.	
8g	Survival rate	---	40%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water sprinkling system was installed and two numbers of water tankers with the capacities of 16KL are used in mines for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Additonal plantation is being done by lessee to improve aesthetic beauty of in and around lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted in time	Submitted in time	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri.B.Anil Kumar, Manager & Mining Engineer Sri. T.Hemasundara Rao, Geologist	Sri.B.Anil Kumar, Manager & Mining Engineer Sri. T.Hemasundara Rao, Geologist
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits = 47.894 Ha. Reclaimed area = Nil Dumps = Nil Occupied by plant, building, roads etc. : 24.57 Ha Plantation : 5.0 Ha	Same as submitted
9d	Scrutiny of Annual return on afforestation	Within ML = No. of plants = 2500 nos Outside ML = No. of plants = 1000 nos.	Broadly as submission and same quantity is verified in afforestation register maintained.
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	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is reported as Rs.239.8/-	Total depreciation are not matching with the cost per tonne calculation. Advised to correct the annual returns since it has been referred back by the MMS division
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.93582173/-	Same as reported

9k Scrutiny of Annual return on mining machineries BACK HOE (2.1 CUM 3) -3 No. mining area.
BACK HOE 1.400 CUM- 2 No.
TIPPER (12.6 CUM)- 18 No.
BLAST HOST
DRILL (115 MM) -3 No.
AIR COMPRESSOR (12.750 CUM/MN) -3 No.
DOZER (180 HP)- 1 No.
WATER TANKER (16000 LITRE)- 2 No.

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

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines