

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/GNR/LST-44/HYD

Mine code : 38APR07051

- (i) Name of the Inspecting : **DP09**) **D.P.Ravi kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : S/Shri M.Sai Krishna, Mining Engineer and N.Ramesh Ba
Official with
Designation
- (iv) Date of Inspection : 19/03/2024
- (v) Prev.inspection date : 15/03/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TERALA(49.18 HA)**
- (b) **Registration NO.** : **IBM/680/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : GUNTUR
Village : TERALA
Taluka : MACHERLA
Post office : MACHERLA
Pin Code : 522426
FAX No. : 08642222350
E-mail : it.macherla@kcp.co.in
Phone : 08642222303
- (f) Police Station : Macherla
- (g) First opening date : 08/12/2009
- (h) Weekly day of rest : SUN
2. Address for : TERALA VILLAGE
correspondance : DURGI MANDAL
GUNTUR DISTRICT
3. (a) Lease Number : APR2597
- (b) Lease area : 49.18
- (c) Period of lease : 50
- (d) Date of Expiry : 11/12/2058
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S.KCP LTD
 MACHERLA AT&PO GUNTUR
 ANDHRA PRADESH
 Phone:08642222303
 FAX :08642-222350

Owner : DR.V.L.DUTT,C&MD
 2,P.V. CHERIAN CRESCENT,
 CHENNAI,TAMIL NADU.
 CHENNAI CITY TAMIL NADU
 Phone: 4466772600
 FAX : 4466772620

Agent : B V P S Chowdhary
 M/s KCP Cements Macherla-
 522426 Andhra Pradesh
 GUNTUR ANDHRA PRADESH
 Phone: 08642-222303
 FAX : 08642-222350

Manager
 Name : S.PRASAD
 Qualification : DIPLOMA IN MINING
 Appointment/ : 18/01/2010
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	20/10/2014
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	23/02/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	Entire mining lease area is covered under G1 level of exploration
1e	Balance reserve as on 01/04/20		Proved Mineral Reserves as on 01/04/2023 - 0.955 million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc		Entire mining lease area is covered under G1 level of exploration.	Entire mining lease area is covered under G1 level of exploration. Since the exploration is covered under G1 level, lessee not submitted the geological study report. A violation letter under rule 12(4B) of MCDR 2017 issued to the lessee.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Proposed co ordinates between during the year 2022-23 : E 334774 - E 334953 N 1816 628 - 1816811	Work done within the proposed co-ordinates.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only mineral benches proposed	Onfy mineraf benches developed	Nil
2c	Stripping ratio or ore to OB ratio	01: 0.01	01: 0.01	Nil
2d	Quantity of topsoil generation in m3	5467 cum	5467 cu.m	None
2e	Quantity of overburden generation in m3	No proposal	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The lessee is carrying the development as per the approved mining plan document.	The lessee is carrying the development as per the approved mining plan document.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	Nil
3b	Quantity of ROM mineral production proposed	300300 tonnes	295000 tonnes	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	No proposal	Nil	Nil

3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting is proposed in the mineral benches.	Wagon drill, being used for drilling with a blast hole dia of 115 mm & depth of 8 m, spacing of 5 meters and burden of 3 meters - Blasting with ANFO & slurry explosives with NONEL-S as initiating system.	Nil
3k	Provision of mining machineries in mineral benches	Excavator and dumper combination was proposed.	During inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant.	Nil

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 meters	Bench height is being maintained as 7 m. Digging height of the excavators are compatible with bench height.	Nil
3m	Total area covered under excavation/pits	17 .79 Ha	13.23 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1.0: 0.010	1.0: 0.010	Nil
3o	Total area put in use under different heads at the end of year	17.79 ha	Area covered under current workings= 13.230, area used for waste disposal=1.240 ha, area occupied by plant, buildings and roads etc=0.46 ha, area used for green belt, garland drain & retaining bund= 3.840 ha.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19 = 4 01350 Tonnes, 2019-20= 400132 tonnes, 2020-21 = 400400 Tonnes, 2021-22 = 3 0275 0 tonnes, 2022-23=302750 tonnes	2018-19= 390000 t, 2019-20= 400050 t, 2020-21= 245000 t, 2021-22= 230000 t , 2022-23=295000 t	Nil
3q	General remarks of inspecting officers on method of mining etc.			The measure made by the in the approved document for exploitation being implemented.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping for topsoll proposed	Seperated topsoil dumping done	Nil

4b	Location of topsoil, OB and mineral reject dumps	Topsoil dumping proposed in the Northern part of the mining pit	Dumping done in the northern part of the pit as per proposal	Nil
4c	Number of dumps within lease area and outside of lease area	one dump within the lease area	One dump within the lease area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	One	One	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			waste dumping is done as per the proposals.

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	Nil

5b	Area under backfilling of mined out area	No proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	The pit is not mined out upto its ultimate pit limit to start backfilling.	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 in time	Submitted	Nil
6b	Area available for rehabilitation (ha) .	No proposa	Nil	Nil
6c	afforestation done (ha).	0.55 ha	0.55 ha	Nil
6d	No. of saplings planted during the year	300 nos	within the lease area=300 nos., out side lease area = 100 nos.	Nil
6e	Cumulative no .of plants	800 nos	700 nos.	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	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 2022-23 and all the parameters are within the permissible limit.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The lessee has carried out all the environmental protection measures as envisaged in the approved document. The proposed afforestation, environmental monitoring carried out as proposed.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM to be utilised for captive plant	Entire ROM utilised for captive plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	Nil
7d	Any beneficiation process at mines	No proposal	Nil	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.	No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed to remove and utilize topsoil separately.	Topsoil removed separately and utilised for plantation	Nil
8b	Concurrent use or storage of topsoil	To be utilised for plantation.	Utilised for plantation	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	0.55 ha and 300 Nos of saplings	0.55 ha and 300 Nos of saplings	Nil
8g	Survival rate	No proposal	90%	Nil
8h	Water sprinkling on roads to control airborne dust	It was proposed to control dust suppression by water sprinkling.	same was noticed during the inspection.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantation is being done all along the Mining Lease boundary and within to improve the aesthetic beauty of mine.	Plantation is being done all along the Mining Lease boundary and within to improve the aesthetic beauty of mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual returns and monthly returns to be subnltted in time .	The lessee is submitting the Annual returns and Monthly returns regularly.	The lessee is submitting the Annual returns and Monthly returns regularly.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. S. Prasad Mining Engineer - Sri Sal Krishna	Manager - Sri S. Prasad, Mining Enginee:r - Sri Sai Krishna	Advised to update the Geologist informatlon in the returns portal
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 13.230 ha, Waste dlsposal - 1,.24 Ha, Infrastructure - 0.46 Ha., Green belt , garland drain & Retaining bund=3.84 ha.	Pit - 13.230 ha, Waste dlsposal - 1,.24 Ha, Infrastructure - 0.46 Ha., Green belt , garland drain & Retaining bund=3.84 ha.	Nil

9d	Scrutiny of Annual return on afforestation	300 nos	300nos.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production =Rs.259.32/-	The same were noticed during the inspection.	Nil
9h	Scrutiny of Annual return on fixed assets	None	None	None
9k	Scrutiny of Annual return on mining machineries	Backhoe- 1No., Tipper - 4 nos., Drilling machine=01, Water Tanker=01, Dozer - 1 No.	The same were noticed during the inspection.	a

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 11(1)	08/04/2024			
MCDR17	Rule 12(4)	08/04/2024			

Date :

(D.P.Ravi kumar)

Indian Bureau of Mines