

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KNL/LST-121/HYD

Mine code : 38APR11046

- (i) Name of the Inspecting : 160) kalmata.M.K
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : M Srinivasulu, Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 18-MAY-23
- (v) Prev.inspection date : 23-DEC-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : PELUKUR
- (b) **Registration NO.** : IBM/668/2011
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : PELUKUR
- Taluka : BEGANAPALLY
- Post office : PELUKUR
- Pin Code : 518598
- FAX No. : 08516276242
- E-mail : seshasaimining@yahoo.com
- Phone : 0851627342
- (f) **Police Station** : Banganapalli
- (g) **First opening date** : 10-APR-97
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : Shri B. Rajendranath,
H.N-10-161, AT/PO- BETHAMCHERLA
DISTRICT KURNOOL
3. (a) **Lease Number** : APR1272
- (b) **Lease area** : 4.05
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 09-APR-47
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : B. RAJENDRANATH
 B. RAJENDRANATH, H.NO:10/161
 BETHAMCHERLA, KURNOOL DT.
 KURNOOL ANDHRA PRADESH
 Phone:08516-273023
 FAX :

Owner : B. RAJENDRANATH
 MINE OWNER, H.NO:10/161
 BETHAMCHERLA KURNOOL, AP.
 KURNOOL ANDHRA PRADESH
 Phone: 08516-273042
 FAX :

Mining Engineer

Name : Shri. Jeelan, Part Time
 Qualification : B.E. Mining.
 Appointment/ : 02-OCT-17
 Termination date

Geologist

Name : Mr. Shridhar M Bhat, Part Time
 Qualification : Msc, Geology.
 Appointment/ : 01-SEP-19
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	20-JAN-95
		Mining Scheme rule 12 MCDR1988	09-FEB-04
		Mining Scheme rule 12 MCDR1988	16-NOV-12
		MP modif under 17(3) MCR 2016	03-JUL-17
		MP review under 17(1) MCR 2016	07-MAR-22

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposal to drill 08 exploratory boreholes in the year 2022-23.	No such exploration has been carried out by the lessee.	Violation is pointed out for the same under Rule 11(1) of MCDR 2017.
1b	Exploration over lease area for geological axis 1 or 2	Proposal was given to prove the depth wise continuity of the ore body.	No exploration has been carried out in the year 2022-23.	Entire mineralized area was laterally explored under G-1 level. However, in the year 2022-23, proposal was given to prove depth wise continuity of the ore body.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	None.	No exploration has been carried out in the year 2022-23.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None.	None.	Entire mineralized area is explored under G-1 level, however, most of the boreholes were ended in ore only. So know the depth continuity exploration was proposed in the year 2022-23. The said exploration was not carried out by the lessee and violation is pointed out for the same under Rule 11(1) of MCDER 2017.

1e	Balance reserve as on 01/04/20	As per the approved document dated 09.03.2022, details of reserves/resources is as follows. (Unit in tonnes, As on 01.01.2022) Proved M Reserves (111) - 530101 Feasibility M Resources (211) - 139895 Total:- 669996	Reserves/resources as on 01.04.2023 (unit in tonnes) Proved M Reserves (111) - 445366 Feasibility M Resources (211) - 139895 Total :- 585261	Reserves/resources are updated by depleting 84735 tonnes of ROM production, achieved during the period 1.1.2022 to 31.03.2023
----	--------------------------------	--	--	---

1f	General remarks of inspecting officers on geology, exploration etc	The area forms a part of Narji Limestone formations of Kurnool group of rocks. The limestone appears to be an altered product of Carbonate rocks. The formation is fine to medium grained in texture. Laterally entire mineralized areas is explored under G-1 level by drilling 02 boreholes and exploratory trial pits. Further, in the year 2022-23 proposed 08 boreholes to know the continuity of the ore body.	The said exploration was not carried out by the lessee and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
----	--	--	---

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t.lease area	In the year 2022-23, there was a proposal to work between the co-ordinates N1705520 to N 1705735 & E 205260 to E 205390.	It was observed that working was carried out between the co-ordinates N 1705550 to N 1705635 & E 205350 to E 205440. Further it appears in the Eastern side (between BP-D & E) working has been extended in the 7.5mtr safety zone also.	Violation is pointed out for the same under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in ore only.	Only ore benches were observed.	Topsoil is removed completely without forming the bench.
2c	Stripping ratio or ore to OB ratio	1:0	1:0	No OB handling was proposed in the year 2022-23.
2d	Quantity of topsoil generation in m3	150 Cum	250 Cum	Working has been extended in the 7.5 mtr safety zone also . so topsoil is removed more than the proposal. Violation is pointed out under Rule 11(1) of MCDR 2017, for extended working up to 7.5 mts safety zone.
2e	Quantity of overburden generation in m3	None.	None.	No OB handling was proposed in the year 2022-23.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The Entire area is mineralized & ore is fine to medium grined in nature. No OB was proposed and handled in the year 2022-23. However, working has been not carried out as per the proposal and Violation is pointed out for the same under Rule 11(1) of MCDR 2017.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	

3b	Quantity of ROM mineral production proposed	1,00,000 tonnes in the year 2022-23.	49710 tonnes in the year 2022-23.	Production is achieved nearly 50% only. Violation is pointed out for the same under Rule 11(1) of MCDR 2017.
3c	Recovery of saleable/usable mineral from ROM production	100%	100%.	
3d	Quantity of mineral reject generation	None.	None.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of sub grade mineral generation.	None.	None.	
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	None.	None.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None.	None.	
3j	Provision of drilling and blasting in mineral benches	Proposed drilling and blasting for production and development.	Not carried out drilling and blasting in the year 2022-23.	The material is fine to medium grained in texture and that can be easily removed by excavator. so no drilling and blasting was carried out in the year 2022-23.
3k	Provision of mining machineries in mineral benches	Proposed combination of excavator and tipper for production and development.	using excavator & tippers as per the proposal.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 3.00 mtr bench height.	Maintained bench height 2.5 to 3.00 mtrs.	The material is fine to medium grined in nature and proposed bench height is suitable to the nature of the deposit.
3m	Total area covered under excavation/pits	3.270Ha up to end of financial year 2022-23.	Approximately 3.10 Ha.	Lessee has not updated plan and sections, so unable to calculate exact area under pits. Violation is pointed out for not updating plan and sections under Rule 31(4) of MCDR 2017.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB handling is proposed in the year 2022-23.
3o	Total area put in use under different heads at the end of year	Area under mining-3.27Ha, Waste dump- 0.270Ha, Mineral storage:- 0.06Ha.	Area under mining- 3.25Ha, waste dump- 0.27Ha, Mineral storage:- 0.08Ha.	Waste dump and mineral storages are covered in the Pit area of 3.25Ha, However, since lessee has not submitted updated plan and section, unable to calculate exact area of utilization under different heads.
3p	Production of ROM mineral during the last five year period as applicable	2022-23 100000 tonnes 2021-22 100000 tonnes 2020-21 100000 tonnes 2019-20 100000 tonnes 2018-19 100000 tonnes	2022-23 49710 tonnes 2021-22 96450 tonnes 2020-21 13390 tonnes 2019-20 16980 tonnes 2018-19 18740 tonnes	The last document was approved for the period 2022-23 to 2026-27. In the year 2022-23 production is achieved only 50% and violation is pointed out for the same under Rule 11(1) of MCDR 2017.

3q	General remarks of inspecting officers on method of mining etc.	The formation is fine to medium grained in texture, so material was removed by using excavators without drilling and blasting. Bench height was almost maintained 2.5 mtr to 3.00 mtrs height which is as per the proposal and suitable to the nature of the deposit. Further, in the year 2022-23 production is achieved only 50% of the proposal and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
----	---	---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	None in the year 2022-23	About 200 tonnes of topsoil was temporarily stocked in the northern part of the lease area.	Four old waste dumps were observed in the northern part of the lease area.
4b	Location of topsoil, OB and mineral reject dumps	None in the year 2022-23.	About 200 tonnes of topsoil was temporarily stocked in the northern part of the lease area.	Four old waste dumps were existing in the northern side of the lease.
4c	Number of dumps within lease area and outside of lease area	None in the year 2022-23	None.	Four old waste dumps are existing within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None.	None.	Old dumps are existing within the UPL.
4e	Number of active and alive dumps.	None.	None.	
4f	Number of dead dumps.	None in the year 2022-23.	None in the year 2022-23.	Four inactive old waste dumps are existing in the Northern side of the lease area.
4g	Number of dumps established.	None.	None.	None.

4h	Whether Retaining wall or garland drain all along dumps are there.	None.	None.	Old dumps are existing within the pit only. So no retaining walls were proposed and made all along the toe of the waste dump.
4i	Length of Retaining wall or garland drain all along dumps	None.	None.	None.
4j	Number of settling ponds	None.	None.	None.
4k	Specific comments of inspecting officer on waste dump management		No dumping was made in the year 2022-23. However, four old inactive waste dumps are existing in the northern side of the lease area. The dumps are existing within the UPL. The dumps are not huge and existing within the pit , so no retaining walls were proposed and made all along the toe of the 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 backfilling is proposed in the present plan period.	No backfilling is made in the present plan period.	Mineral is not extracted up to the proved depth, so, no backfilling was proposed and made in the present plan period.
5b	Area under backfilling of mined out area	None in the year 2022-23.	None in the year 2022-23.	Previously about 0.06Ha area in the 7.5 mtr safety zone is backfilled (Norther western part of the lease area).
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None.	None.	

5d	Total area fully reclaimed and rehabilitated	None.	None.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is not extracted upto the proved depth and no area is matured for backfilling, so no backfilling was proposed and made in the present plan period. However, previously about 0.06Ha area in the 7.5 mtr safety zone is backfilled (Norther western part of the lease area).

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).	Before 1st July of every year.	Not submitted yearly report on PMCP for the year 2021-22.	Violation is pointed out for the same under Rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	None.	None.	
6c	afforestation done (ha).	0.11Ha.	0.13Ha.	
6d	No. of saplings planted during the year	50 saplings in the year 2022-23.	95 saplings were planted in the year 2022-23.	
6e	Cumulative no .of plants	250 saplings in the present plan period.(2022-23 to 2026-27)	Plantation made in the year 2022-23 is 95.	Total plantation made so far is approximately 500.
6f	Any other method of rehabilitation	None.	None.	
6g	Cost incurred on watch and care during the year	None.	25000 approximately.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None.	None.	Previously 60m x 10m x 3.0 m area is backfilled in the north westrn part of the lease area.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None.	None.	Previously 7.5 mtr safety zone is backfilled by using waste rock.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	None.	None.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None.	None.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None.	None.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None.	None.	Plantation was made in the 7.5 mtr safety zone.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None.	None.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None.	None.	

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed regular monitoring of Air, water and noise in the core and buffer zone.	Lessee has carried out environmental monitoring in the month of January 2023 for Air, Water and Noise and all the parameters are found within permissible limit.	Monitoring was carried out by MSV Analytical Laboratories, Ballari.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Only plantation was proposed in the year 2022-23, lessee has planted 95 saplings in the year 2022-23 against the proposal of 50. Carried out Mointoring of AIR, Water and Noise in the month of Jan-2023 and results are within permissible limits. Lessee has not submitted yearly report on PMCP for the year 2021-22, violation is pointed out for the same under Rule 26(2) of MCDR 2017.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed dispatch of Cement grade ore.	Lessee is dispatching Cement grade ore.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None.	None.	Lessee is dispatching cement grade ore by blending.
7c	Different grade of mineral sorted out at mines.	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines .	None.	None.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is using Entire ROM as cement grade by blending and recovery is 100%. No beneficiation is required for upgradation of the ore.	

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, proposed.	Topsoil is removed separately and utilized for plantaion work.	Approximately 500 tonnes of topsoil was removed in the year 2022-23. Out of 500 tonnes approximately 300 tonnes utilized for plantation work and remaining stored in the temprory stock yard for future use.
8b	Concurrent use or storage of topsoil	Concurrent use.	Both concurrent use & Storage.	Approximately 500 tonnes of topsoil was removed in the year 2022-23. Out of 500 tonnes approximately 300 tonnes utilized for plantation work and remaining stored in the temprory stock yard for future use.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	None.	None.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None.	None.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None.	None.	Earlier, in North western part of the lease area some are is temporarily back filled in the 7.5 mtr safety zone.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Yes provided, lessee has planted about 500 saplings within the lease area.	

8g	Survival rate	Not mentioned.	40 to 50%.	Lessee has advised to take care of the plantation by engaging manpower.
8h	Water sprinkling on roads to control airborne dust	Yes, proposed.	Lessee is using hired water tanker for suppression of dust when required.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The benches were maintained systematically. retaining wall is constructed all along the lease boundary. Plantation was made in the 7.5 mtr safety zone and in the office premises. During inspection it was observed that survival rate was less, so lessee has advised to engage manpower for taking care of the plantation.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	A monthly returns shall be submitted before 10 th day of every month in respect of preceding month and an annual returns shall be submitted before 1st day of july of each year for the preceding financial year.	Lessee is regularly submitting monthy and annual returns within the time limit.	Submitted Monthly returns up to April 2023 and annual returns 2021-22.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the annual returns submitted for the year 2021-22, details of Mining Engineer & Geologist is as follows. Mining Engineer:- Shri S.Jilan and Geologist:- Shri Sreedhar Bhat. Manager:- Shri M.Sreenivasulu	The details furnished in the Annual returns are found correct.	However, both mining engineer and Geologist were not present during the inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining-3.49Ha, Other purpose:- 0.55Ha, Infrastructure -0.01Ha.	Area under mining- 3.25Ha, waste dump- 0.27Ha, Mineral storage:- 0.08Ha.	The information furnished in the AR is almost correct, since the dumps are existing within the pit only, about 0.55ha is shown as other. However, lessee has advised to show the land use patterns properly as per the actual utilization.
9d	Scrutiny of Annual return on afforestation	110 plants with survival rate of 40%.	Information is found correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	None.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM:- Opening and closing stock- Nil and production 96450 T. Grade wise production and dispatch:- Cement Grade:- Opening stock- 2290T, Production 96450T, Dispatch- 93000T and closing stock:-5740T.	In the Annual returns submitted for the year 2021-22, Closing stock is shown as Zero for ROM. However, in the Monthly returns submitted for the Month of April 2022, Opening stock for ROM is mentioned as 5740 tonnes.	Show-cause notice is pointed out for the same under Rule 45(7) of MCDR 2017.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production:- Rs 295/T , Sale value and exmine price:- Rs 380/T.	Information furnished is found correct.	
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is mentioned as Rs- 2000000.	The information furnished is found correct.	
9k	Scrutiny of Annual return on mining machineries	Tipper of 10 cum capacity.	Information is found correct.	Additionally lessee is using hired excavator for production and development and same is not shown in the returns.

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)	24-MAY-23			
MCDR17	Rule 26(2)	24-MAY-23			
MCDR17	Rule 31(4)	24-MAY-23			

Date :**(kalmata.M.K)**

Indian Bureau of Mines