

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KNL/LST-142/HYD

Mine code : 38APR11037

- (i) Name of the Inspecting : 160) kalmata.M.K
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : M. Sreenivasulu, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 18-MAY-23
- (v) Prev.inspection date : 28-AUG-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : PALUKUR (S.NO.54)
- (b) **Registration NO.** : IBM/668/2011
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : PALUKUR
- Taluka : BEGANAPALLY
- Post office : PALUKUR
- Pin Code : 518598
- FAX No. : 08516276242
- E-mail : seshasaimining@yahoo.com
- Phone : 08516-273042
- (f) **Police Station** : NANDAVARAM
- (g) **First opening date** : 14-OCT-01
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : B.RAJENDRANATH, Mine owner
D.N-10/161, At/po- Bethamcherla
Dist -Kurnool, A.P
3. (a) **Lease Number** : APR1272
- (b) **Lease area** : ~~4.05~~ 4.45Ha
- (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	:	Fresh under rule 22 MCR1960	27-JUL-00
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	16-NOV-05
		MP review under 17(1) MCR 2016	29-SEP-16
		MP review under 17(1) MCR 2016	20-JUL-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In the year 2021-22, there was a proposal to drill 06 DTH boreholes and 08 trial pits to check the continuity of ore body.	No such exploration was 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 know the depth continuity of the ore body.	No exploration was carried out by the lessee in the present plan period.	Laterally entire area is explored under G-1 level, by drilling 06 DTH holes and 04 trial pits. However, maximum depth covered by drilling is only 15.00 mtrs. So to know the depth continuity of ore body exploration was proposed. Exploration was not carried out as per the proposal and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	None.	No exploration was carried out in the present plan period.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None.	None.	Laterally entire area is explored under G-1 level, however to know the depth continuity of the ore body exploration proposal was given in the year 2021-22. The said exploration was not carried out and violation is pointed out for the same under Rule 11(1) of MCDR 2017.

1e	Balance reserve as on 01/04/20	Reserves/Reso urces as per the approved document dated 20.07.2020. (Reserves as on 01.01.2020.) Proved Mineral Reserves (111) - 98,704 tonnes Feasibility Mineral Resources (211) - 74,069 tonnes Total: - 1,72,773 tonnes.	Reserves/resources as on 01.04.2023. Proved Mineral Reserves (111):- 83484 tonnes Feasibility M Resources (211):- 74,069 tonnes Total : 1,57,553 tonnes	Reserves/resources figures were updated by depleting the production carried out from 01.01.2020 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 ares is explored under G-1 level by drilling 06 boreholes and exploratory trial pits. Further, in the year 2021-22 proposed 06 boreholes and 08 trial pits 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
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2a	Location of development w.r.t.lease area	In the year 2022-23, there was a proposal to work between the co-ordinates N1705667 to N 1705721 & E 205553 to E 205615.	Actual working has been carried out between the co-ordinates N 1705675 to N 1705730 & E 205490 to E 205560 in southern part of the lease and N 1705780 to N 1705840 & E 205400 to E 205460. Further, in the Southern part of the lease are (Near BP-9), it appears working has been carried out in the 7.5 mtr safety zone also.	The working was not carried out as per the proposal and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	In the year 2022-23 benches were proposed in ore only.	Benches were made in ore only.	Total two benches were observed, having bench height of approximately 3.00mtrs. Lessee was not updated surface plan, so unable to record exact bench parameters. Violation is pointed out under Rule 31(4) of MCDR 2017 for not updating plan and sections.
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	None in the year 2022-23.	None.	
2e	Quantity of overburden generation in m3	None in the year 2022-23.	None.	
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.	However, working has been carried out in two different locations in the existing pit. So, violation is pointed out under Rule 11(1) of MCDR 2017.
3b	Quantity of ROM mineral production proposed	12000 tonnes in the year 2022-23.	As per the monthly returns submitted production carried out in the year 2022-23 is 1370.	In the year 2022-23 production is carried out less and violation is pointed for the same under Rule 11(1) of MCDR 2017. Further, production figures mentioned in the Monthly returns (Apr-2022 to Mar-2023) are varies from para to para, so show-cause notice is issued under Rule 45(7) of MCDR 2017.
3c	Recovery of sailable/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.	Threshold value declared is Cao minimum 34%.	No mineral reject was generated in the year 2022-23.	
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	Manual.	Manual.	

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	Carried out drilling and blasting as per the proposal.	Blasting is carried out by gelatin and detonators.
3k	Provision of mining machineries in mineral benches	None.	None.	The mine is working by manual method.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed benches in ore only and proposed height is 3.00 mtrs.	2.5 to 3.00 mtr, Bench height was maintained.	
3m	Total area covered under excavation/pits	Area under mining- 3.559Ha.	Area covered under pits is approximately - 3.559Ha. (Including backfilled area)	Lessee has not updated plan and sections so exact area covered under pits is not calculated .
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	Area under mining- 3.559Ha, Infrastructure -0.003Ha, Roads-0.056Ha.	Area under mining 3.559Ha, Infrastructure- 0.059Ha, others-0.834Ha(retaining walls, plantation, stocks etc).	
3p	Production of ROM mineral during the last five year period as applicable	2022-23 12000 tonnes 2021-22 12000 tonnes 2020-21 12000 tonnes 2019-20 12000 tonnes 2018-19 12000 tonnes.	2022-23 1370 tonnes (ROM production as per monthly returns) 2021-22 12000 tonnes 2020-21 10880 tonnes 2019-20 7390 tonnes 2018-19 7430 tonnes	
3q	General remarks of inspecting officers on method of mining etc.		The method of mining adopted is manual. The bench height was maintained 2.5 to 3.00 mtrs.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	None.	None.	One mineral dump was observed near B.P.-5.
4b	Location of topsoil, OB and mineral reject dumps	None.	None.	
4c	Number of dumps within lease area and outside of lease area	None.	None.	One mineral dump is existing within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None.	None.	One temporary mineral dump is existing within the UPL.
4e	Number of active and alive dumps.	None.	None.	One active mineral stock is existing near B.P.5
4f	Number of dead dumps.	None.	None.	
4g	Number of dumps established.	None.	None.	
4h	Whether Retaining wall or garland drain all along dumps are there.	None.	None.	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable.	
4j	Number of settling ponds	None.	None.	
4k	Specific comments of inspecting officer on waste dump management		No dumping was proposed and made in the year 2022-23.	

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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. However, previously back filling was made in the 7.5 mtr safety zone (In the Northern side and Eastern side of the lease area).
5b	Area under backfilling of mined out area	None in the present plan period.	None.	Earlier about 0.6Ha is backfilled.
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.		No backfilling was proposed and made in the present plan period. However, in the past about 0.6ha (approximately) is backfilled to restore the 7.5 mtr safety zone.	

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).	0.095Ha in the year 2022-23	0.08Ha in the year 2022-23.	

6d	No. of saplings planted during the year	97 saplings.	95 saplings.	During inspection it was observed that survival rate was very poor, so lessee was advised to take care of the plantation by proper monitoring.
6e	Cumulative no .of plants	491 saplings in the present plan period (2020-21 to 2024-25)	280 saplings in the present plan period up to 2022-23.	
6f	Any other method of rehabilitation	None.	None.	
6g	Cost incurred on watch and care during the year	None.	None.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None.	None.	
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) Afforestation 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.	
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 97. 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.	Manual.	Manual.
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)	None.	None.	
8b	Concurrent use or storage of topsoil	None.	None.	
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, 7.5 mtr safety zone is reclaimed by backfilling.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Yes provided, lessee has planted about 275 saplings in the present plan period within the lease area	
8g	Survival rate	None.	Below 50%	Survival rate is very lessee, so lessee has advised to taking care of the plantaion by proper monitoring.
8h	Water sprinkling on roads to control airborne dust	yes, proposed.	The mine is working manually and generation of dust is negligible. However, 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
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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 submiteed 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- 3.559Ha, Infrastructure -0.059Ha. 0.834Ha(plantation retaing wall etc)	The information furnished in AR is correct.	Area covered under pits is including backfilled area.
9d	Scrutiny of Annual return on afforestation	80.00 and survival rate 60%	The information on number of plants is correct. However it appears surviaval rate was less.	Lessee has advised to take care of the plantation by proper monitoring.
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 stock-2080T, Production-13180T, Closing stock-3760T. Grade wise production and dispatch: Cement grade:- opening stock-2080T, Production:- 13180T, Dispatch-11500T and closing stock-3760T.	As per the Monthly returns submitted for the year 2021-22 (April 2021 to March 2022) total ROM production done during the year 2021-22 is 12000 tonnes, however, in the annual returns submitted for the year 2021-22 total ROM production is mentioned as 13180 tonnes. Further, At part VI(1) for ROM opening stock is mentioned as 2080 tonnes and production 13180T , further, under grade wise production entire ROM produced (13180 tonnes) is shown as Cement grade and closing stock under ROM is mentioned	Further, At part VI(1) for ROM opening stock is mentioned as 2080 tonnes and production 13180T , further, under grade wise production entire ROM produced (13180 tonnes) is shown as Cement grade and closing stock under ROM is mentioned as 3760 tonnes. The stock positions shown under ROM and grade wise production and dispatch are incorrect. Showcause notice is issued 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 appears found correct.	
9k	Scrutiny of Annual return on mining machineries	Air compressor.	The information is found correct.	

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 27(1)	24-MAY-23			
MCDR17	Rule 31(4)	24-MAY-23			

Date :

(kalmata.M.K)

Indian Bureau of Mines