

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-180/HYD

Mine code : 38APR11131

- (i) Name of the Inspecting : **PG01**) **P.GURUVAIAH**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri M. Sreenivasulu, Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 23/12/2021
- (v) Prev.inspection date : 16/02/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PALKUR(2.25 HA) MINE**
- (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 : BANAGANAPALLI
- Post office : PALUKUR
- Pin Code : 518124
- FAX No. : (08516)276242
- E-mail : seshasaimining@yahoo.com
- Phone : (08516)273042,9440294104
- (f) Police Station : BANGANAPALLI
- (g) First opening date : 01/04/2008
- (h) Weekly day of rest : SUN
2. Address for : B.Rajendranath,mineowner,h.no.10/161
correspondance Bethamcherla (po),kurnool dt AP -518599
3. (a) Lease Number : APR2827
- (b) Lease area : 3.25
- (c) Period of lease : 20
- (d) Date of Expiry : 29/10/2027
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 : S JILANI,Part Time
 Qualification : B TECH
 Appointment/ :
 Termination date

Geologist

Name : SRIDHAR BHAT,Part Time
 Qualification : MSC GEOLOGY
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18/05/2007
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	18/10/2012
		MP modif under 17(3) MCR 2016	04/07/2017

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.	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Nil	-
1e	Balance reserve as on 01/04/20	As on 1/04/2020 under 111 : 2,17,823 Metric Tonnes. 122 : 25,841 Metric Tonnes.	As on 1/04/2021 under 111 : 1,80,443 Metric Tonnes. 122 : 25,841 Metric Tonnes.	Updated reserves and resources obtained from Average grade of Limestone 35 to 54.11 % Cao. the latest approved document dated 4/7/2017.
1f	General remarks of inspecting officers on geology, exploration etc	The topography is more or less flat terrain , gently sloping towards East.altitude ranges from 248 to 251m above MSL and it surrounded by other mining leases.	The geological formation of the region belongs to Narji calcareous Flags member of kurnool group of rocks.The general geoligical sequence of rock formations Soil cover 0 . 20 m ,Murram- 0.50 to 1.50m, Limestone 6.00 to 10.00m Chert 1.00 to 2.00m the general strike direction of formations are North- East South West the Limestone bed occurs as near horizontal.	-

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	F.Y 2020-21 in between UTM co- ordinates N 1706815 to N 1706876 and E 205946 to E 206059 North west of the lease area.	F.Y 2020-21 in between UTM co- ordinates N 1706815 to N 1706876 and E 205946 to E 206059 North west of the lease area.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to have seperate benches in the ore and overburden. Overburden/waste : Nil Mineral/ore :2 nos.	It was proposed to have seperate benches in the Overburden/waste : Nil Mineral/ore :2 nos.	-
2c	Stripping ratio or ore to OB ratio	No proposal.	Nil	less production during F.Y 2020-21 due to Covid pandemic and lack of market demand.
2d	Quantity of topsoil generation in m3	No proposal.	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	-	-	The development production is being done through Manual method.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 no.	01 no	-
3b	Quantity of ROM mineral production proposed	F.Y .2020-21 : 20,000 Metric Tonnes.	F.Y .2020-21 : 15,070 Metric Tonnes.	-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-

3d	Quantity of mineral reject generation	No proposal of mineral reject generation during F.Y.2020-21.	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Nil	-
3f	Quantity of sub grade mineral generation.	No proposal.	Nil	-
3g	Grade of sub grade mineral generation	No proposal.	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	Jack hammer drilling and blasting was proposed. Spacing- 1.00m Burden- 0.75m Depth of the hole-1.50m Blasting efficiency-80 %.	Jack hammer drilling and blasting was proposed. Spacing- 1.00m Burden- 0.75m Depth of the hole-1.50m Blasting efficiency-80 %.	-
3k	Provision of mining machineries in mineral benches	1. Tractor Mounted compressor no, 1. 2. Jack Hammer 01 no 3. Tractor Trailer 01 no.,	1. Tractor Mounted compressor no, 1. 2. Jack Hammer 01 no 3. Tractor Trailer 01 no.,	-

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain one bench height for Mineral/ore - 1.00m to 3.00m Overburden was removed separately. .	It was proposed to maintain one bench height for Mineral/ore - 1.00m to 3.00m Overburden was removed separately. .	-
3m	Total area covered under excavation/pits	1. 150 ha during F.Y 2020-21	1.350 ha during F.Y 2020-21	-
3n	Ore to OB ratio for the pit/mine during the year.	No proposal.	Nil	-
3o	Total area put in use under different heads at the end of year	pit- 1.150 Ha OB/waste - 0.300Ha others- .525 Ha. up to end of F.Y 2021-22.	pit- 1.050 Ha OB/waste - 0.300Ha others- .525 Ha. up to end of F.Y 2021-22.	-
3p	Production of ROM mineral during the last five year period as applicable	2016-17-20000 T 2017-18-20000 T 2018-19 -20000 T 2019-20- 20000 T 2020-21-20000 T	2016-17-8620 T 2017-18-7680 T 2018-19 -7450 T 2019-20- 7180 T 2020-21-15070 T	-
3q	General remarks of inspecting officers on method of mining etc.			Mining is being done through the opencast B Manual method.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB/Waste has been proposed in the earmarked locations.	Separate dumping of OB/Waste has been proposed in the earmarked locations.	OB/Waste has not been generated during F.Y 2020-21.

4b	Location of topsoil, OB and mineral reject dumps	No proposal.	Nil	OB/Waste has not been generated during F.Y 2020-21.
4c	Number of dumps within lease area and outside of lease area	No proposal.	Nil	OB/Waste has not been generated during F.Y 2020-21.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Nil	-
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	-	-	proposed beyond Ultimate pit Limit.

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 during F.Y. 2020-21.	NIL, Area not matured for the reclamation and the rehabilitation.	-
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 topsoil will be generated during plan period.	Not applicable.	-
5d	Total area fully reclaimed and rehabilitated	No Proposal during F.Y. 2020-21.	Nil -Area is not matured for reclamation and rehabilitation.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Nil

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).	Submitted before due date.	Information has been cross verified during inspection.	No major deviation has been found.
6b	Area available for rehabilitation (ha) .	No proposal.	Nil	-
6c	afforestation done (ha).	No proposal.	Nil	-
6d	No. of saplings planted during the year	No proposal.	Nil	-
6e	Cumulative no .of plants	No proposal.	Nil	-
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	No proposal.	Nil	-

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) Afforestation 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	No proposal.	Nil	-
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	By plantation.	By plantation.	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	It has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the permissible limit.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Nil
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The ROM proposed to produced 20,000 tonnes during the year 2020-21.	The actual production reported during the year 2020-21 was 15070 T	-
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	-	-	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil	-
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)	30 nos	30 nos	-
8g	Survival rate	No proposal.	60%	-
8h	Water sprinkling on roads to control airborne dust	No proposal.	Nil	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Nil

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 December 2021 A.R. Submitted up to F.Y. 2020-21	M.R. Submitted up to December 2021 A.R. Submitted up to F.Y. 2020-21	-

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Manager - Sri A.Rami Reddy. Geologist - Sri Sreedhar Bhat.	Mining Engineer & Manager - Sri A.Rami Reddy. Geologist - Sri Sreedhar Bhat.	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	pit- 1.350 Ha OB/waste - Nil others- Nil up to end of F.Y 2021-22.	pit- 1.350 Ha OB/waste - Nil others- Nil up to end of F.Y 2021-22.	-
9d	Scrutiny of Annual return on afforestation	Within the lease 30 nos Survival rate 60%	Within the lease 30 nos Survival rate 60%	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Pit :1.350 ha Mineral Reject: NIL Grade: NIL	Pit :1.350 ha Mineral Reject: NIL Grade: NIL	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: 750 Tonnes ROM: 15070 Tonnes Graded ore : Nil	Closing Stock: 750 Tonnes ROM: 15070 Tonnes Graded ore : Nil	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value: Rs. Not given Ex-Mine Price: Rs. 380 Per Metric Tonne Cost of Production: Rs. Not given	Sale Value: Rs. Not given Ex-Mine Price: Rs. 380 Per Metric Tonne Cost of Production: Rs. Not given	-
9h	Scrutiny of Annual return on fixed assets	Rs: 0.	Rs: 0.	-
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Cross verified from the field logbooks.	-

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(P.GURUVAIAH)

Indian Bureau of Mines