

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **DP09**) **D.P.Ravi kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : **SHRI M. SREENIVASULU, MINING ENGINEER**
Official with
Designation
- (iv) Date of Inspection : 28-AUG-21
- (v) Prev.inspection date : 25-JAN-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PALUKUR (S.NO.54)**
- (b) **Registration NO.** :
- (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 :
Phone : **08516-273042**
- (f) Police Station : **NANDEVARAM**
- (g) First opening date : **14-OCT-01**
- (h) Weekly day of rest : **SUN**
2. Address for : **B.RAJENDRANATH, Mine owner**
correspondance : **D.N-10/161, At/po- Bethamcherla**
Dist -Kurnool, A.P
3. (a) Lease Number : **APR1272**
- (b) Lease area : **4.05**
- (c) Period of lease : **20**
- (d) Date of Expiry : **09-APR-17**
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 :

Manager

Name : B.BOREDDY
 Qualification : DIP IN MINING
 Appointment/ : 01-JAN-06
 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	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	Lessee, Rs. two lakh	Lessee, about Rs.2,00,000/- spent on exploration.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No area is remaining for exploration	Entire area has been explored in G1 scale.	
1f	General remarks of inspecting officers on geology, exploration etc			The formation of the mineral is uniform bedded type deposit with lithounits of top soil, limestone. Entire area has been explored in G1 scale.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1705754 1705810 , E 205636 TO 205683	TO Work is being carried out within proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	
2c	Stripping ratio or ore to OB ratio	1:0.02	1:0.01	
2d	Quantity of topsoil generation in m3	None	None	

2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mining operations are being carried out by manual means by maintaining bench height of 3 mt. Top soil is about 0.3 to 0.5 meters thick and is incidental.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One Pit	
3b	Quantity of ROM mineral production proposed	12,000 t	10880 t	
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery consedering bulk density of 2.25 tonnes / cum as this is soft limestone formation.	100 % recovery with bulk density of 2.25 tonnes / cum	
3d	Quantity of mineral reject generation	No proposal	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	Manual sorting and sizing is proposed	Manual sorting and sizing is reported for upgrading of ore and for blending purpose as per requirement of industry.
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 with tractor mounted compressor is used for drilling. Blasting is to be carried out by using high explosive with detonators. It is incidental whenever hard rock is encounter.	Drilling and blasting is done as per the approved proposals during the year.
3k	Provision of mining machineries in mineral benches	Jack Hammer with tractor mounted compressor, tripper / tractors	Jack Hammer with tractor mounted compressor, tripper / tractors.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 meters bench height is suitable for this type of deposit	yes, suitable.
3m	Total area covered under excavation/pits	3.977 ha.	3.559 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.02	1:0.01

3o	Total area put in use under different heads at the end of year	3.559 ha.	3.559 ha.	
3p	Production of ROM mineral during the last five year period as applicable	2015-16=12000t, 2016-17=12000 t, 2017-18=12000 t, 2018-19=12000 t, 2020-21	2015-16= 3990 t, 2016-17, 7690 t, 2017-18=8120 t, 2018-18=7430 t, 2020-21=10880 t	
3q	General remarks of inspecting officers on method of mining etc.		Manual Method of mining is being adopted using Jack Hammer drill by maintaining bench height of 3.0 meters.	Manual Method of mining is being adopted using Jack Hammer drill by maintaining bench height of 3.0 meters.

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	
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)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	One	One	
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			One waste dump was observed nin the lease area.

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.	During the Plan Period, it is proposed to handle about 986 tonnes of IB waste, which will be systemeticall dumped on backfilled area covering an area of 0.03. ha. on northern side of the lease area.	None	As on date of inspection total 2000 tonnes waste generated is backfilled. sofar, 1.052 ha., area is under backfilling.
5b	Area under backfilling of mined out area	0.03 ha., during the plan period	None	
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.			2000 tonnes waste generated is backfilled only. Sofar, 1.052 ha. area is under 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).	The report on PMCP has to be subitted before 1 st July of the following year for the preceding financial year	The PMCP report for 2020-21 is submitted.	
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	
6c	afforestation done (ha).	0.097 ha.	0.097 ha.	
6d	No. of saplings planted during the year	97 saplings	100 saplings planted.	
6e	Cumulative no .of plants	491 plants for the plan period.	About 500 no. of plants are exists in the lease area.	
6f	Any other method of rehabilitation	No Proposal	Nil	
6g	Cost incurred on watch and care during the year	Not specified.	Not reported.	

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	During the plan period, it is proposed to handle about 986 tonnes of IB waste which will be systematically dumped on backfilled area covering an area of 0.03 ha., on northern side of the lease area.	Nil	During the plan period, it is proposed to handle about 986 tonnes of IB waste which will be systematically dumped on backfilled area covering an area of 0.03 ha., on northern side of the lease area.
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)	Not applicable	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring of environmental parameters is proposed for core and buffer zone.	Monitoring of environmental parameters such as ambient air, water quality, noise levels & vibrations etc. are being done on quarterly basis.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mining is by manual method and backfilling is under progress in the mineral exhausted area. No rehabilitation is commenced so far. Besides, monitoring of environmental parameters such as ambient air, water quality, noise levels & vibrations etc. are being done on quarterly basis.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting and sizing is to be done.	Manual sorting and sizing is reported to be done.	

7c	Different grade of mineral sorted out at mines.	Manual sorting and sizing is being done at mine and proposed to be blended to suitable grade for sale.	Different grades is reported to be blended and despatched.
7d	Any beneficiation process at mines .	No Proposal	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No beneficiation. Mineral is being segregated manually.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	
8b	Concurrent use or storage of topsoil	Nil	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)	During the plan period, 0.03 ha., to be backfilled on northern side of the lease area.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation in the area is scanty, additional plantation of 97 saplings was proposed to be carried out.	100 no.of saplings were planted.
8g	Survival rate	Not specified	70%
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads is proposed.	Water sprinkling on haul roads is being done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		About 100 saplings is planted during the year to improve the aesthetic beauty of the area. Environmental monitoring is being done and water sprinkling arrangement is made to suppress the dust generated due to mining activity.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns to be submitted regularly.	Submitted status is satisfactory.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Shri M. Sreenivasulu, Mining Engineer InCharge: Shri S.Jilani, Geologist In Charge: Shri Sridhar Bhat	Above persons are employed by the lessee.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workins : 3.502 ha., Occupied by plant, buildings, residential, welfare buildings & roads: 0.097 ha., PMCP work: 0.853	Covered under current workins : 3.502 ha., Occupied by plant, buildings, residential, welfare buildings & roads: 0.097 ha., PMCP work: 0.853
9d	Scrutiny of Annual return on afforestation	100 nos of saplings.	100 nos. of saplings.
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	ROM Limestone production: 10880 t tonnes	ROM limestone production : 10880 t
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value & Ex Mine price : Rs.380, Production cost: Rs: 280.	Sale value & Ex Mine price : Rs.380, Production cost: Rs: 280.
9h	Scrutiny of Annual return on fixed assets	Fixed asset as furnished in AR is Rs 20,00,000/-	Rs 20,00,000/-

9k Scrutiny of Air Compressor The deployment status of
Annual return on with Jack mining mechaneries are
mining Hammer drill found to be in order.The
machineries deployment status of
 mining mechaneries are
 found to be in order.

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 :

(D.P.Ravi kumar)

Indian Bureau of Mines