

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-210/HYD

Mine code : 38APR11192

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : K Viswanatha Reddy
Official with
Designation
- (iv) Date of Inspection : 11/03/2020
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANDAVARAM(4.990 HA)**
- (b) **Registration NO.** : **IBM/623/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : NANDAVARAM
- Taluka : BANAGANAPALLI
- Post office : BANAGANAPALLI
- Pin Code : 518 12
- FAX No. : +91 97044 68777
- E-mail : svrdinesh@gmail.com
- Phone : +91 97044 68777
- (f) Police Station : Banganapalli
- (g) First opening date : 11/04/2018
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked :

5. Name and Address of the

Lessee : S.VENKATA RAMI REDDY
PALKUR VILLAGE KURNOOL
ANDHRA PRADESH
Phone:
FAX :

Owner : S.VENKATARAMI REDDY
MINE OWNER, PALKUR POST,
BANGANAPALLI MANDAL,
KURNOOL DISTRICT. KURNOOL
ANDHRA PRADESH
Phone:
FAX :

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No approved exploration proposal for 2018-19	Nil	---
1b	Exploration over lease area for geological axis 1 or 2	No approved exploration proposal for 2018-19	Entire area explored under G1 & G2 level by 17 nos of trial pits.	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No approved exploration proposal for 2018-19	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No approved exploration proposal for 2018-19	Nil	
1e	Balance reserve as on 01/04/20	344828 tonnes	526777 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Tufaceous Limestone found to occur in the lease. The limestone is soft and powder in nature.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Between F-F' & E-E' section	Between F-F' & E-E' section	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil bench - 1 (1.5m) Ore bench-1 (6 - 6.4m)	Top Soil-1 Ore bench-1 (4 - 6m)	
2c	Stripping ratio or ore to OB ratio	No such approved proposal for 2018-19	Nil	
2d	Quantity of topsoil generation in m3	1125m3 during 2018-19	280m3	
2e	Quantity of overburden generation in m3	No such approved proposal for 2018-19	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Limestone bench of 6m height has been developed.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	82091 Tonnes during 2018-19	24500 Tonnes in 2018-19	34170 for 2019-20 upto 29/02/2020
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No such approved proposal for 2018-19.	Nil	Proposed work area is not having any mineral reject.
3e	Grade of mineral rejects generation and threshold value declared.	No such approved proposal for 2018-19.	NA	
3f	Quantity of sub grade mineral generation.	No such approved proposal for 2018-19.	Nil	Proposed work area is not having any sub grade.
3g	Grade of sub grade mineral generation	No such approved proposal for 2018-19.	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No such approved proposal for 2018-19.	No mineral segregation is being done within the mine.	Entire ROM is directly saleable in market without any upgradation.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such approved proposal for 2018-19.	No beneficiation carried out as entire produced ROM is directly saleable in market without any further upgradation.	

3j	Provision of drilling and blasting in mineral benches	No such approved proposal for 2018-19.	Nil	Drilling & blasting is not required as the limeseone is soft in nature and can be digged by excavator only.
3k	Provision of mining machineries in mineral benches	Hydraulic (0.9m3) cum-1, tippers-3 nos - 10 tonners each.	Hydraulic (0.9m3) cum-1, tippers-3 nos - 10 tonners.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Two benches of 1.5m height each	Top bench 1.5m Mineral bench - 6m	
3m	Total area covered under excavation/pits	2.25 Ha.	Around 1 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	No such proposal approved for 2018-19.	NIL	
3o	Total area put in use under different heads at the end of year	2.523 Ha	2.023 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-2018 : 59,603 Tonnes 2018-2019 : 82,091 Tonnes 2019-2020 : 64,755 Tonnes	2017-2018 : Nil 2018-2019 : 24,500 Tonnes 2019-2020 : 34,170 T (Upto 29/2/2020)	ML executed on 19/12/2017 and mining operation commenced on 11/04/2018.
3q	General remarks of inspecting officers on method of mining etc.			Mechanized method of mining has been adopted.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate top soil dump proposed over 0.21 ha.	Separate top soil dump carried out 2018-19.	

4b	Location of topsoil, OB and mineral reject dumps	In Northern part of the ML bounded by BP-2,3,4 & 5 in 0.21 Ha. area.	Over C-C' & A-A' over an extent of 0.21 ha.	
4c	Number of dumps within lease area and outside of lease area	One top soil dump	One top soil dump.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the ultimate pit limit.	Top soil dumped outside the ultimate pit limit.	
4e	Number of active and alive dumps.	One	One top soil dump	-
4f	Number of dead dumps.	No such approved proposal for 2018-19	Nil	
4g	Number of dumps established.	No such approved proposal for 2018-19.	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such approved proposal for 2018-19.	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No such approved proposal for 2018-19.	Nil	
4j	Number of settling ponds	No such approved proposal for 2018-19.	Nil	
4k	Specific comments of inspecting officer on waste dump management			One top soil dump exists within the mining lease.

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 such proposal approved for 2018-19.	Nil	Proposed area is not mined out completely and mineral is yet to be extracted. No part of ML is mature to start backfilling.

5b	Area under backfilling of mined out area	No such proposal approved for 2018-19.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	To be stored.	Stored.	
5d	Total area fully reclaimed and rehabilitated	No such proposal approved for 2018-19.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No part of the mining lease area is completely exhausted and is matured 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	Submitted	
6b	Area available for rehabilitation (ha) .	No such proposal approved for 2018-19	NIL	No such worked/mined out bench available as of now.Mineral is yet to be completely exhausted and no part of the ML is matured for starting backfilling.
6c	afforestation done (ha).	No such proposal approved for 2018-19	Nil	
6d	No. of saplings planted during the year	-do-	Nil	
6f	Any other method of rehabilitation	-do-	Nil	

6g	Cost incurred on watch and care during the year	-do-	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal approved for 2018-19	Nil	Mineral is yet to be completely exhausted and no part of the ML is matured for starting backfilling.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal approved for 2018-19	Nil	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No such proposal approved for 2018-19	Nil	-do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal approved for 2018-19	Nil	-do-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal approved for 2018-19	Nil	-do-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal approved for 2018-19. But there is proposal to plant 130 nos within 7.5m safety zone.	150 nos within safety zone.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal approved for 2018-19	Nil	-do-

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal approved for 2018-19	Nil	-do-
6p	Compliance of environmental monitoring (core zone and buffer zone)	No such proposal approved for 2018-19	Environmental Monitoring not carried.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			150 nos saplings planted.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM is to be despatched.No grade wise sorting proposal approved for 2018-19.	22500 tonnes despatched during 2018-19.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise mineral sorting proposed for 2018-19.	Grade-wise mineral sorting not carried out.	-
7c	Different grade of mineral sorted out at mines.	No despatch proposed. No such proposal approved for 2018-19.	Nil	
7d	Any beneficiation process at mines .	No despatch proposed. No such proposal approved for 2018-19.	No beneficiation as the entire ROM is directly saleable in the market without any further upgradation.	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Quality of ROM is above the required grade, hence beneficiation is not warranted.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	To be removed separately and stacked over an extent of 0.21 Ha.	Top soil removed separately and stacked.	-
8b	Concurrent use or storage of topsoil	Top soil Storage proposed	Stored	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Top soil stacking proposed.	Separate stacking of top soil carried out.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal approved for 2018-19	Nil as there is no overburden, waste.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal approved for 2018-19	Nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed plantation to be done in 7.5m buffer zone.	150 nos planted(between BP-7 to 8,BP-8 to 12)	2019-2020 - 150 saplings are planted in 7.5m buffer zone.
8h	Water sprinkling on roads to control airborne dust	Water tanker to be provided for sprinkling on roads	Carried by deploying water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Green belt is being developed to maintain the aesthetic beauty in and around the mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	To be submitted	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be submitted	submitted
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be submitted	Submitted as 0.74 Ha
9d	Scrutiny of Annual return on afforestation	To be submitted	150 nos
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	To be submitted	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be submitted	Submitted as Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be submitted	Ex mine price-Rs 243.43 Cost of Production-Rs 145.12
9h	Scrutiny of Annual return on fixed assets	To be submitted	SUBMITTED AS NIL
9k	Scrutiny of Annual return on mining machineries	TO BE SUBMITTED	SUBMITTED

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 :

(S K MUDULI)

Indian Bureau of Mines