

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/CDP/LST-21/HYD

Mine code : 38APR04011

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri P.Bhaskar Reddy-Mines Manager
Official with
Designation
- (iv) Date of Inspection : 29/01/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THIPPALUR LIMESTONE MINE**
- (b) **Registration NO.** : **IBM/6527/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : ANDHRA PRADESH
District : CUDDAPAH
Village : THIPPALUR
Taluka : YERRAGUNTALA
Post office : SUNKESULA
Pin Code :
FAX No. : 08578-286688
E-mail :
Phone : 08578-286650
- (f) Police Station : YERRAGUNTALA
- (g) First opening date : 07/12/2001
- (h) Weekly day of rest : SUN
2. Address for : THIPPALUR(V)
correspondance : YERRAGUNTALA(M)
CUDDAPAH DT.
3. (a) Lease Number : APR1180
- (b) Lease area : 28.02
- (c) Period of lease : 20
- (d) Date of Expiry : 23/06/2021
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : SRIKALAHASTHIPIPES LIMITED
RACHAGUNNERI SRIKALAHASTHI
MANDAL CHITTOOR ANDHRA
PRADESH
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 22/01/2001
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 15/12/2006
Mining Scheme rule 12 MCDR1988 12/08/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during 2019-20.	No exploration carried during 2019-20.	
1b	Exploration over lease area for geological axis 1 or 2	No proposal during 2019-20.	Entire area covered under G1(15.588 Ha) & G2(2.10 Ha) level exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during 2019-20.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	2.10 Ha. is to be explored in G1 level.
1e	Balance reserve as on 01/04/20		5622162 tonnes in 111 category-Mineral Reserve 4111567 tonnes in 221/222 category-Remaining Resources	5612962 under (III) category as on 31.12.2020.
1f	General remarks of inspecting officers on geology, exploration etc	None	None	One BH is required to explore the entire mineralized area in G1 Scale.The deposit is simple and stratified.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1616026-1616146 , E 239428-239495, 102 mRL to 101m - Soil, 83m to 101m Limestone	Mining has been carried out within the proposed area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate bench for mineral and top soil to be maintained.	Benches in Ore has been developed.	Top soil has been scrapped off before developing Ore benches.
2c	Stripping ratio or ore to OB ratio	No such approved proposal for 2019-20 as there is no OB	No OB produced.	

2d	Quantity of topsoil generation in m3	2340 m3	60 tonnes/30 m3	During 2020-21 (Upto 31.12.2020) - 145 tonnes/77.5 m3 of top soil has been generated. Top soil has been spreaded along 7.5m safety zone for Green Belt Development.
2e	Quantity of overburden generation in m3	No such approved proposal for 2019-20	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mining is being carried out by Mechanised mining method. At present there are 4 mineral benches. Bench height 5 to 6m.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	75636 tonnes in 2019-20	28180 tonnes	9200 tonnes during 2020-21 (Upto 31.12.2020)
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal as no M.R. generation assessed.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	No Sub Grade generation assessed.	Nil	
3g	Grade of sub grade mineral generation	NA	NA	

3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	No segregation as entire ROM is directly saleable	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No Beneficiation Study carried out.	Beneficiation is not warranted.
3j	Provision of drilling and blasting in mineral benches	Deep Hole Drilling and Blasting Burden- 2.5m,Spacing- 2m, Depth of Hole-6.5m Wagon Drill- 115mm dia ANFO- 80%,Slurry Explosives-20%	Deep Hole Blasting Burden-2.5m,Spacing-2m, Depth of Hole-6.5m Wagon Drill-115mm dia	
3k	Provision of mining machineries in mineral benches	Type of Capacity of No.of units	Type of Capacity of No.of units each unit	
		machinery each unit	SHOVEL) 0.900 CUM 1 AIR COMPRESSOR 7.000	
		SHOVEL) 0.900 CUM 1	CUM/MN 1 TIPPER	
		AIR COMPRESSOR 124 CFM 1	10.000 CUM 2 WATER TANKER 5000.000 LITRE 2	
		TIPPER	CRUSHER 30.000 T/H 1	
		10.000 CUM 2	CRUSHER	
		WATER TANKER 5000.000 LITRE	15.000 T/H 1 JEEP/TRACTOR 40.000 HP	
		2 CRUSHER	1 ROCK DRILL 115.000 MM 1	
		50.000 T/H 1 CRUSHER		
		15.000 T/H 1 JEEP/TRACTOR 40.000 HP		
		1 ROCK DRILL 115.000 MM 1		

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mtrs	Within 6 mtrs. Yes excavator deployed can easily dig upto the proposed bench height.
3m	Total area covered under excavation/pits	5.070 Ha upto 31.3.2021	About 3.90 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	No such approved proposal for 2019-20	No OB produced
3o	Total area put in use under different heads at the end of year	8.24 Ha	About 5.42 Ha
3p	Production of ROM mineral during the last five year period as applicable	2014-15-196020 tonnes 2015-16-196416 tonnes 2016-17-74030 tonnes 2017-18-74360 tonnes 2018-19-74580 tonnes 2019-20 - 75636 tonnes	2014-15- 55800 tonnes 2015-16- 64500 tonnes 2016-17- 68300 tonnes 2017-18- 70000 tonnes 2018-19- 53150 tonnes 2019-20 - 28180 tonnes
3q	General remarks of inspecting officers on method of mining etc.		Opencast method of mining by deep hole drilling blasting and by deploying heavy mining machinery 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)	Proposal reuse / spreading of 2340 m3 top soil	30m3 spreaded for plantation purpose	Top soil Spreading has been done in the 7.5m safety zone along ML boundary.
4b	Location of topsoil, OB and mineral reject dumps	Top soil will be spread in 7.5mts safety zone area for the plantaion purpose.	Top soil spreaded in 7.5mts safety zone area for the plantaion purpose.	

4c	Number of dumps within lease area and outside of lease area	Two	Two top soil dump in North	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	2 active	2 active	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	2 top soil dump	2 top soil dump	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such approved proposal for 2019-20.	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No such approved proposal for 2019-20.	Nil	
4j	Number of settling ponds	No such approved proposal for 2019-20.	Nil	
4k	Specific comments of inspecting officer on waste dump management			No waste dump exist 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 proposal in 2019-20.	Mineral extraction upto the UPL is yet to be carried out.	No part of the mine area is mataured for backfilling.
5b	Area under backfilling of mined out area	No proposal in 2019-20.	Nil	Mineral extraction upto the UPL is yet to be carried out.No part of the mine area is mataured for backfilling.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal in 2019-20.	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal in 2019-20.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Mineral extraction upto the UPL is yet to be carried out.No part of the mine area is maturated for 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 yearly as per statute	Submitted.	
6b	Area available for rehabilitation (ha) .	No proposal in 2019-20.	Nil	Mineral extraction upto the UPL is yet to be carried out.No part of the mine area is maturated for backfilling.
6c	afforestation done (ha).	No proposal in 2019-20.	No worked out benches available for plantation	However there is a proposal of planting 200 nos sapplings in 0.11 Ha within the ML against which 100 nos saplings have been planted in 0.02 Ha within the ML.
6d	No. of saplings planted during the year	200 nos within ML	100 nos within ML over an area of 0.02 Ha. (Backside office western part of ML).	
6f	Any other method of rehabilitation	No proposal in 2019-20.	Nil	
6g	Cost incurred on watch and care during the year			

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal in Nil 2019-20.	Mineral extraction upto the UPL is yet to be carried out.No part of the mine area is mataured for backfilling.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal in Nil 2019-20.	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal in Nil 2019-20.	-do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal in Nil 2019-20.	-do-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal in Nil 2019-20.	-do-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal in Nil 2019-20.	However there is a proposal of planting 200 nos sapplings in 0.11 Ha within the ML against which 200 nos sapplings have been planted in 0.02 Ha within the ML.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal in Nil 2019-20.	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal in Nil 2019-20.		
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental Monitoring of Air and Water Quality and Nosie Level.	Environmental Parameters Monitoring Being Carried out. Ambient Air Quality and Noise level Monitoring has been done at 3 Core Zone Location. Water quality Monitoring has been done at One Core Zone location.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Crushing and Screening unit within the ML needs cladding and closed hopper.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting and sizing in the lease area	Crushing operation is being carried out in the lease. 27000 tonnes Limestone despatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for sorting.	Only crushing and screening for size reduction 0.8 m & 8 - 30mm within the lease.	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines .	No proposal	Nil	Crushing and screening is being done as per approved RMP.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire ROM is directly usable/salaeble. Beneficiation is not warranted in the mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil has to be removed and spreaded within 7.5m safety zone for plantation purpose	Top soil being utilised for plantation	
8b	Concurrent use or storage of topsoil	Top soil will be spread in 7.5mts buffer zone area for putting the plantaion purpose.	Top soil will be spread in 7.5mts buffer zone area for putting the plantaion purpose.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Top soil to be used for Plantation at 7.5 mts buffer zone	Used for Plantation at 7.5 mts buffer zone	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Mineral extraction upto the UPL is yet to be carried out.No part of the mine area is mataured for backfilling.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	1192 nos plants planted in 2019-20 in 1.24 Ha	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil		Plantation has been done in the western side of the lease along road,behind office,Weigh bridge.

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 submit Monthly and Annual Return in time	Regularly submitting Monthly and Annual Return.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	P.Bhaskar Reddy-ME M.R.Dash-Geologist	P.Bhaskar Reddy-Mines Manager Mining Engineer and Geologist-Not appointed	Violation issued under rule 55(1)(c)(i) for not appointing Geologist and Mining Engineer.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	5.42 hect.	Broadly matching with the submission in the return.	In addition about 2 Ha area covered under plantation.
9d	Scrutiny of Annual return on afforestation	200 nos with in lease area.	Carried 100 nos sapling plantation within the lease over an area of 0.02 Ha.	
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	326 tonnes	326 tonnes as per the production despatch and stock register maintained at mine office.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production per tonne ROM- Rs 420.00 Ex mine price- Rs 420.00	Cost of Production per tonne ROM- Rs 420.00 Ex mine price-Rs 420.00	Crushing and Screening Cost included
9h	Scrutiny of Annual return on fixed assets	Nil	Mining, Crushing and Screening is being done on contract basis.	

9k	Scrutiny of Annual return on mining machineries	Type of Capacity of No.of units	Type of Capacity of No.of units machinery each unit
			SHOVEL) 0.900 CUM 1
			AIR COMPRESSOR 7.000
		SHOVEL)	CUM/MN 1
		0.900 CUM 1	TIPPER
		AIR COMPRESSOR	10.000 CUM 2
		7.000 CUM/MN 1	WATER TANKER 5000.000
		TIPPER	LITRE 2
			CRUSHER
		10.000 CUM 2	30.000 T/H 1
		WATER TANKER	CRUSHER
		5000.000 LITRE	15.000 T/H 1
		2	JEEP/TRACTOR 40.000 HP
		CRUSHER	1
			ROCK DRILL 115.000 MM 1
		30.000 T/H 1	
		CRUSHER	
		15.000 T/H 1	
		JEEP/TRACTOR	
		40.000 HP	
		1	
		ROCK DRILL	
		115.000 MM 1	

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
MCDR17	Rule 55(1)(3)	09/04/2021			

Date :

(S K MUDULI)

Indian Bureau of Mines