

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

MCDR inspection 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 M Baskar Reddy, Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 09/11/2019
- (v) Prev.inspection date : 03/03/2018

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 : **YERRAGUNTLA**
- Post office : **SUNKESULA**
- Pin Code :
- FAX No. : **08578-286688**
- E-mail :
- Phone : **08578-286650**
- (f) Police Station : **YERRAGUNTLA**
- (g) First opening date : **07/12/2001**
- (h) Weekly day of rest : **SUN**
2. Address for : **THIPPALUR(V)**
correspondance : **YERRAGUNTLA(M)**
: **CUDDAPAH DT.**
3. (a) Lease Number : **APR1180**
- (b) Lease area : **40.47**
- (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	No exploration carried	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	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	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	5618822 tonnes Mineral Reserve in 111 category after deducting 2016-17 to 2018-19 proposed production of 222970 tonnes	5650342 tonnes Mineral Reserve in 111 category 4111567 tonnes - Remaining Resources(221/222 category)	
1f	General remarks of inspecting officers on geology, exploration etc	None	None	One Core BH required to explore the entire mineralized area in G1 Scale

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1616026-1616146 , E 239407-239481, 102 mRL to 101m	Mining 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 of top soil, ore benches found maintained seperately	
2c	Stripping ratio or ore to OB ratio	1:0.05	No OB produced.	-

2d	Quantity of topsoil generation in m3	1980 m3	1036 m3	Being spreaded along 7.5m safety zone for Green Belt Development
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 is being carried out by Mechanised mining method. At present there are 4 mineral benches.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	74580 tonnes in 2018-19	53150 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	-
3f	Quantity of sub grade mineral generation.	Nil	Nil	-
3g	Grade of sub grade mineral generation	NA	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	No segregation	-

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No Beneficiation Study carried out.	Beneficiation not required.
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	Tractor mounted wagon drill (115 mm)
3k	Provision of mining machineries in mineral benches	Type of Capacity of No. of units	Type of Capacity of No. of units	
		machinery each unit	machinery each unit	
		SHOVEL) 0.900 CUM 1	SHOVEL) 0.900 CUM 1	
		AIR COMPRESSOR 124 CFM 1	AIR COMPRESSOR 7.000 CUM/MN 1	
		TIPPER	TIPPER 10.000 CUM 2	
		CRUSHER 30.000 T/H 1	WATER TANKER 5000.000 LITRE 2	
		CRUSHER 15.000 T/H 1	CRUSHER 10.000 CUM 2	
		JEEP/TRACTOR 40.000 HP 1	WATER TANKER 5000.000 LITRE 2	
		ROCK DRILL 115.000 MM 1	CRUSHER 30.000 T/H 1	
		CRUSHER 50.000 T/H 1	CRUSHER 15.000 T/H 1	
		JEEP/TRACTOR 40.000 HP 1	JEEP/TRACTOR 40.000 HP 1	
		ROCK DRILL 115.000 MM 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	About 3.80 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	No OB produced	-
3o	Total area put in use under different heads at the end of year	8.24 Ha	About 5 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	2014-15- 55800 tonnes 2015-16- 64500 tonnes 2016-17- 68300 tonnes 2017-18- 70000 tonnes 2018-19- 53150 tonnes	

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 1980 m3 top soil	1036 m3 spreaded for plantation purpose	Top soil Spreading has been done along safety zone
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	One top soil dump in North,One Intercalated waste dump in Soouth Side	-
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.	Nil	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	-

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	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	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	Nil	-do-
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	-do-
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 mataured for backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	Nil	Mineral extraction upto the UPL is yet to be carried out.No part of the mine area is mataured for backfilling.
6c	afforestation done (ha).	No proposal	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 200 nos sapplings have been planted in 0.20 Ha within the ML.
6d	No. of saplings planted during the year	200 nos within ML	200 nos within ML	
6f	Any other method of rehabilitation	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	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	Nil	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Nil	-do-

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	-do-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	-do-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	Nil	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 0.20 Ha within the ML.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental Parameters Monitoring	Environmental Parameters Monitoring Being Carried out	

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. 53499.380 tonnes Limestone despatched.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for sorting.	Not required.Nil	-
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	

7d	Any beneficiation process at mines .	No proposal	Nil	Dry crushing and screening is being dona as per approved RMP
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil has to be remoed 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)	-	2630 nos plants planted upto 2018-19, survival - 60% - 1578 nos, 1.24 Ha	-
8g	Survival rate	-	60%	-
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.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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-ME M.R.Dash-Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	5.32 hect.	About 5 Ha.	In addition nearly 2 Ha area covered under planatation.
9d	Scrutiny of Annual return on afforestation	200 nos with in lease area and 1000 nos out side the lease area	Carried 200 nos sapling plantation within the lease	
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	
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 inncluded
9h	Scrutiny of Annual return on fixed assets	Rs 5166354.00		

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 cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(S K MUDULI)

Indian Bureau of Mines